

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
 Data File : VY014667.D
 Acq On : 17 Jul 2023 13:09
 Operator : SY/MD
 Sample : 03572-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 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 09:23:34 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	277798	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	463019	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	408052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	202070	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	170634	53.902	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.800%			
35) Dibromofluoromethane	7.710	113	159407	54.083	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.160%			
50) Toluene-d8	10.173	98	570740	52.522	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.040%			
62) 4-Bromofluorobenzene	12.477	95	214607	51.505	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.020%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.900	85	6546	2.892	ug/l	92
3) Chloromethane	2.107	50	8655	3.402	ug/l	94
4) Vinyl Chloride	2.247	62	8708	3.063	ug/l	93
5) Bromomethane	2.644	94	7581	4.035	ug/l	88
6) Chloroethane	2.784	64	6084	3.426	ug/l #	84
7) Trichlorofluoromethane	3.119	101	12744	2.669	ug/l	97
8) Diethyl Ether	3.521	74	5075	2.856	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.893	101	7481	2.556	ug/l	97
10) Methyl Iodide	4.088	142	7496	2.737	ug/l	96
11) Tert butyl alcohol	4.911	59	37692	54.093	ug/l #	95
12) 1,1-Dichloroethene	3.863	96	7696	2.813	ug/l	93
13) Acrolein	3.723	56	3904	11.799	ug/l	88
14) Allyl chloride	4.466	41	11006	2.266	ug/l	94
15) Acrylonitrile	5.155	53	14136	14.428	ug/l	98
16) Acetone	3.936	43	16673	16.621	ug/l	98
17) Carbon Disulfide	4.186	76	21781	2.781	ug/l #	94
18) Methyl Acetate	4.466	43	12488	3.244	ug/l	98
19) Methyl tert-butyl Ether	5.210	73	25814	2.905	ug/l	95
20) Methylene Chloride	4.704	84	22666	6.215	ug/l #	87
21) trans-1,2-Dichloroethene	5.210	96	8377	2.698	ug/l	95
22) Diisopropyl ether	6.119	45	24999	2.532	ug/l	89
23) Vinyl Acetate	6.051	43	75798	12.826	ug/l	98
24) 1,1-Dichloroethane	6.009	63	15223	2.694	ug/l	99
25) 2-Butanone	6.978	43	28072	19.128	ug/l	96
26) 2,2-Dichloropropane	6.966	77	23273	4.322	ug/l	85
27) cis-1,2-Dichloroethene	6.984	96	10012	2.771	ug/l	71
28) Bromochloromethane	7.332	49	5600	2.301	ug/l	88
29) Tetrahydrofuran	7.344	42	13814	15.286	ug/l	94
30) Chloroform	7.496	83	16571	2.844	ug/l	96
31) Cyclohexane	7.777	56	18098	3.444	ug/l #	66
32) 1,1,1-Trichloroethane	7.697	97	14529	2.771	ug/l	96
36) 1,1-Dichloropropene	7.917	75	11143	2.528	ug/l	94
37) Ethyl Acetate	7.070	43	8446	2.783	ug/l #	85
38) Carbon Tetrachloride	7.899	117	12182	2.614	ug/l	99
39) Methylcyclohexane	9.179	83	13983	2.435	ug/l	98
40) Benzene	8.155	78	35035	2.795	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.307	41	4094	2.623	ug/l #	67
42) 1,2-Dichloroethane	8.234	62	11638	2.932	ug/l	91
43) Isopropyl Acetate	8.271	43	16091	2.783	ug/l	98
44) Trichloroethene	8.935	130	9507	2.710	ug/l	92
45) 1,2-Dichloropropane	9.209	63	8838	2.700	ug/l	93
46) Dibromomethane	9.301	93	5437	2.738	ug/l	95
47) Bromodichloromethane	9.490	83	12559	2.683	ug/l	95
48) Methyl methacrylate	9.289	41	6878	2.644	ug/l #	89
49) 1,4-Dioxane	9.289	88	1865	57.595	ug/l #	53
51) 4-Methyl-2-Pentanone	10.069	43	43531	14.342	ug/l	92
52) Toluene	10.240	92	21710	2.706	ug/l	96
53) t-1,3-Dichloropropene	10.459	75	13555	2.648	ug/l	99
54) cis-1,3-Dichloropropene	9.923	75	14941	2.684	ug/l	96
55) 1,1,2-Trichloroethane	10.642	97	8035	2.905	ug/l #	89
56) Ethyl methacrylate	10.508	69	10752	2.546	ug/l	93
57) 1,3-Dichloropropane	10.788	76	12945	2.713	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.776	63	24320	12.358	ug/l	95
59) 2-Hexanone	10.825	43	31154	14.075	ug/l	91
60) Dibromochloromethane	10.983	129	9560	2.819	ug/l	98
61) 1,2-Dibromoethane	11.087	107	7877	2.854	ug/l	100
64) Tetrachloroethene	10.715	164	9516	2.900	ug/l	99
65) Chlorobenzene	11.514	112	24673	2.837	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.587	131	8779	2.678	ug/l	97
67) Ethyl Benzene	11.587	91	42897	2.732	ug/l	99
68) m/p-Xylenes	11.703	106	33364	5.567	ug/l	93
69) o-Xylene	12.026	106	16233	2.781	ug/l	98
70) Styrene	12.038	104	27016	2.746	ug/l	98
71) Bromoform	12.203	173	6213	2.796	ug/l #	99
73) Isopropylbenzene	12.325	105	42273	2.672	ug/l	99
74) N-amyl acetate	12.142	43	12990	2.451	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.581	83	10214	2.831	ug/l	99
76) 1,2,3-Trichloropropane	12.630	75	8606m	3.372	ug/l	
77) Bromobenzene	12.605	156	9540	2.641	ug/l	92
78) n-propylbenzene	12.666	91	46575	2.443	ug/l	97
79) 2-Chlorotoluene	12.751	91	27808	2.532	ug/l	100
80) 1,3,5-Trimethylbenzene	12.812	105	35897	2.717	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.373	75	3419	2.594	ug/l	90
82) 4-Chlorotoluene	12.849	91	29105	2.573	ug/l	100
83) tert-Butylbenzene	13.068	119	30039	2.563	ug/l	99
84) 1,2,4-Trimethylbenzene	13.117	105	35553	2.742	ug/l	100
85) sec-Butylbenzene	13.251	105	43715	2.542	ug/l	99
86) p-Isopropyltoluene	13.367	119	36313	2.587	ug/l	99
87) 1,3-Dichlorobenzene	13.361	146	19948	2.838	ug/l	98
88) 1,4-Dichlorobenzene	13.440	146	20544	2.917	ug/l	91
89) n-Butylbenzene	13.690	91	33706	2.468	ug/l	96
90) Hexachloroethane	13.959	117	7456	2.586	ug/l	91
91) 1,2-Dichlorobenzene	13.739	146	17896	2.779	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.349	75	2113	3.062	ug/l	95
93) 1,2,4-Trichlorobenzene	15.007	180	11810	2.889	ug/l	99
94) Hexachlorobutadiene	15.111	225	6117	2.723	ug/l	99
95) Naphthalene	15.233	128	29248	3.071	ug/l	99
96) 1,2,3-Trichlorobenzene	15.422	180	10937	3.010	ug/l	95

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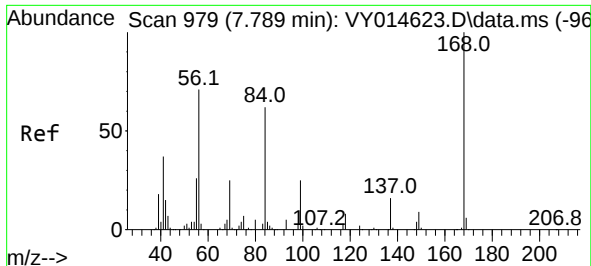
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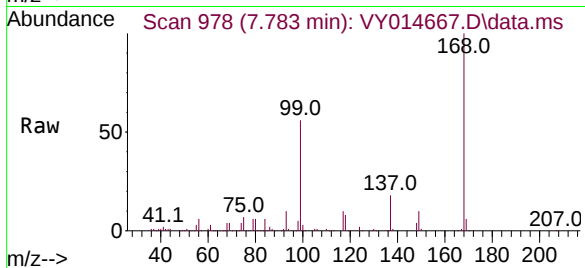
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014667.D
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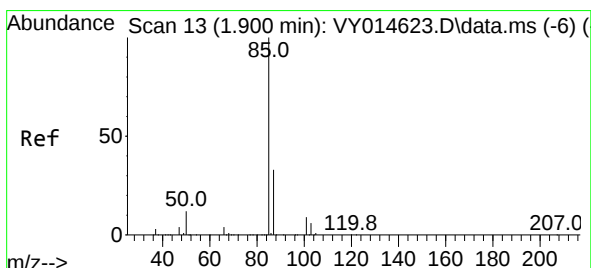
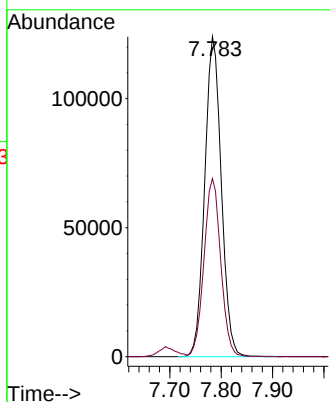
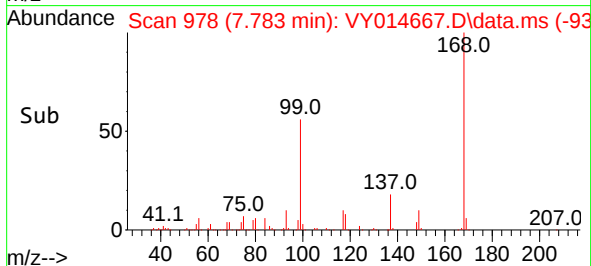
Instrument :
MSVOA_Y
ClientSampleId :
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Tgt Ion:168 Resp: 277798
Ion Ratio Lower Upper
168 100
99 55.7 43.4 65.0

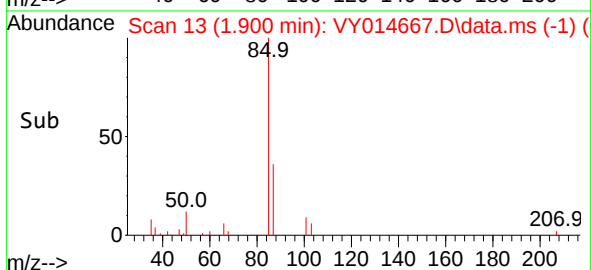
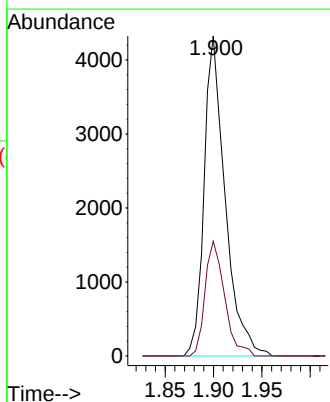
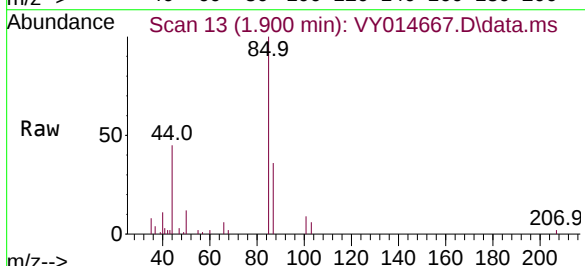
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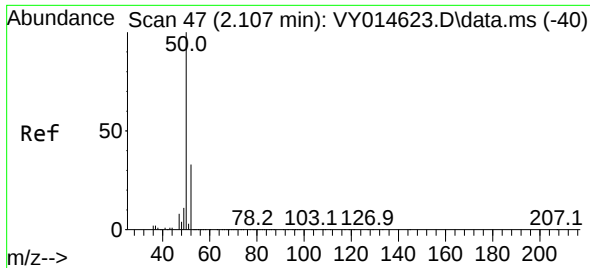
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#2
Dichlorodifluoromethane
Concen: 2.892 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

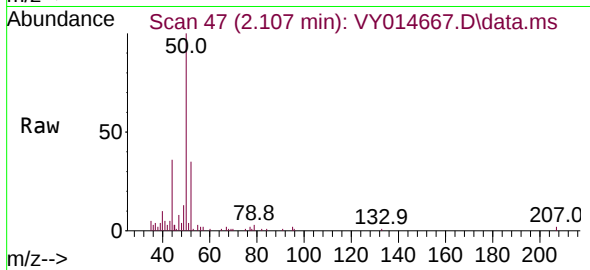
Tgt Ion: 85 Resp: 6546
Ion Ratio Lower Upper
85 100
87 35.8 15.6 46.8





#3
Chloromethane
Concen: 3.402 ug/l
RT: 2.107 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

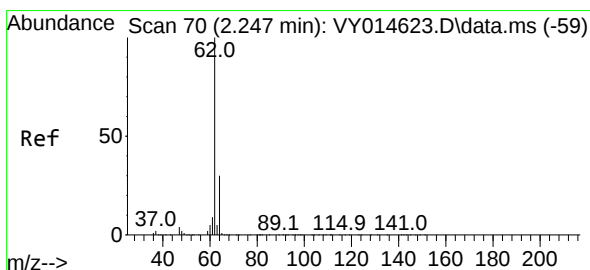
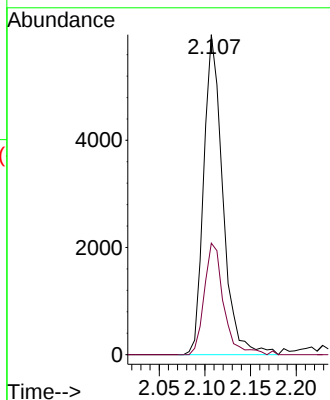
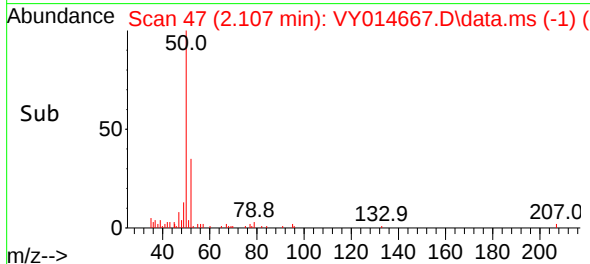
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Tgt Ion: 50 Resp: 865
Ion Ratio Lower Upper
50 100
52 34.9 25.4 38.2

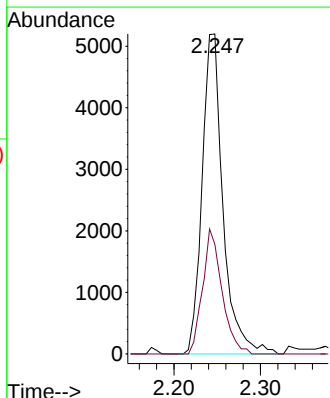
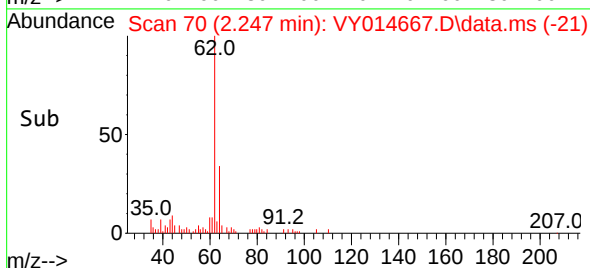
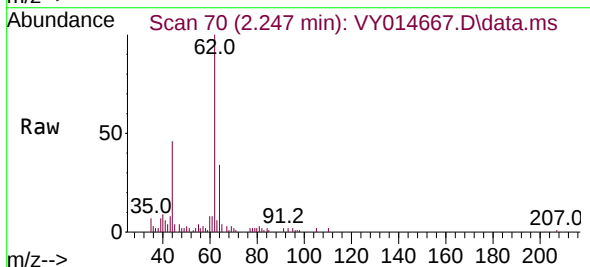
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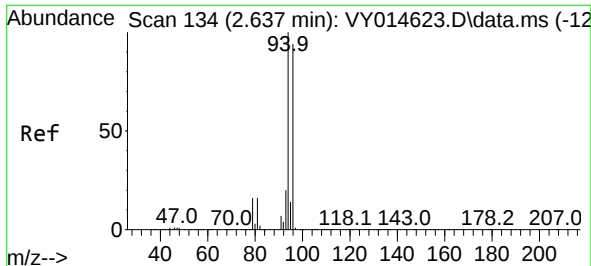
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#4
Vinyl Chloride
Concen: 3.063 ug/l
RT: 2.247 min Scan# 70
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

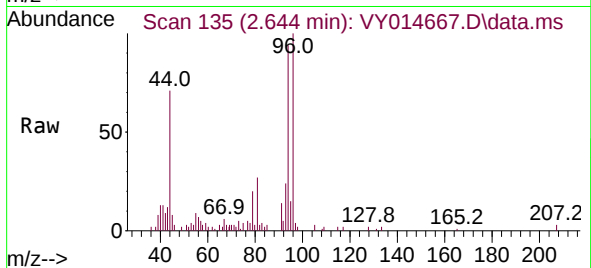
Tgt Ion: 62 Resp: 8708
Ion Ratio Lower Upper
62 100
64 34.3 24.3 36.5





#5
Bromomethane
Concen: 4.035 ug/l
RT: 2.644 min Scan# 11
Delta R.T. 0.007 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

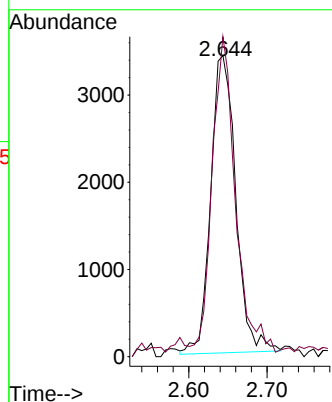
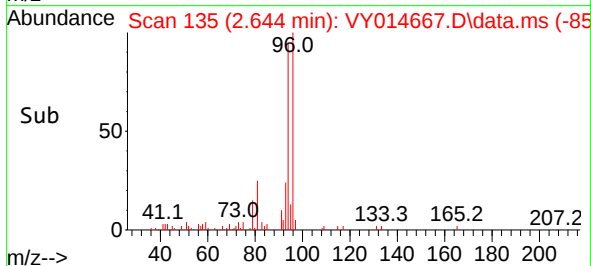
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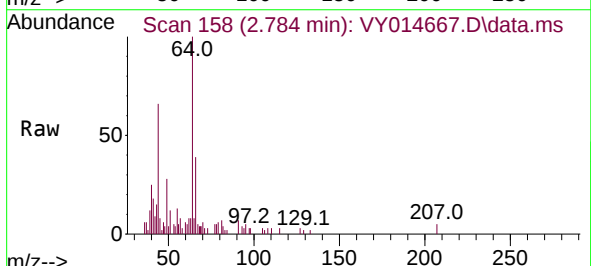
Tgt Ion: 94 Resp: 758
Ion Ratio Lower Upper
94 100
96 106.1 75.8 113.6

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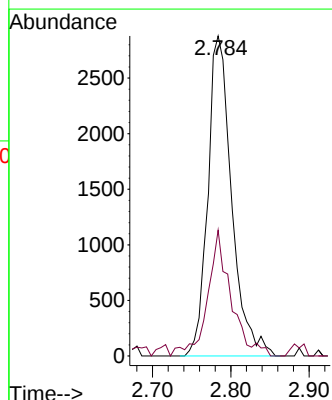
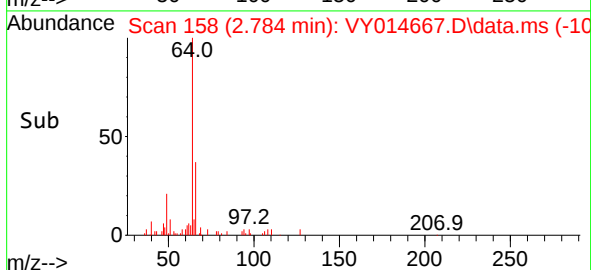
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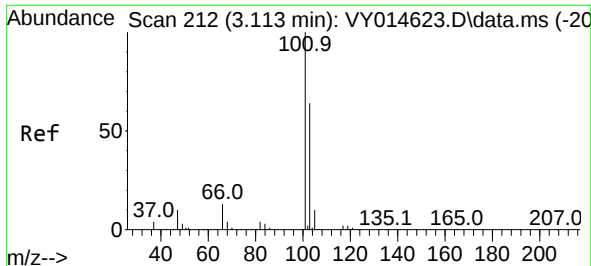


#6
Chloroethane
Concen: 3.426 ug/l
RT: 2.784 min Scan# 158
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



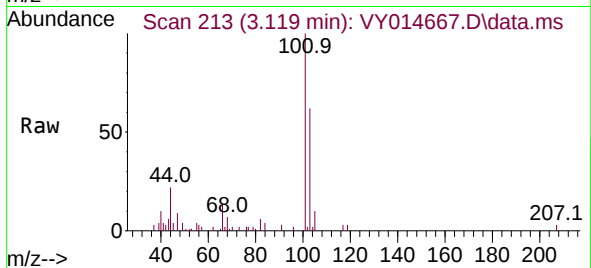
Tgt Ion: 64 Resp: 6084
Ion Ratio Lower Upper
64 100
66 39.3 24.4 36.6#





#7
 Trichlorofluoromethane
 Concen: 2.669 ug/l
 RT: 3.119 min Scan# 212
 Delta R.T. 0.006 min
 Lab File: VY014667.D
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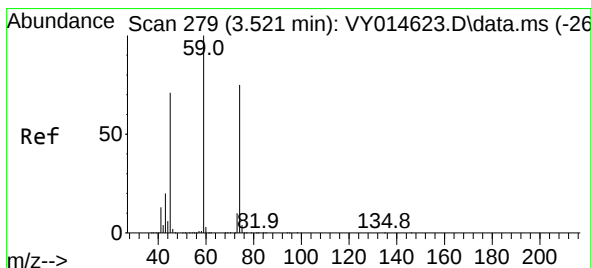
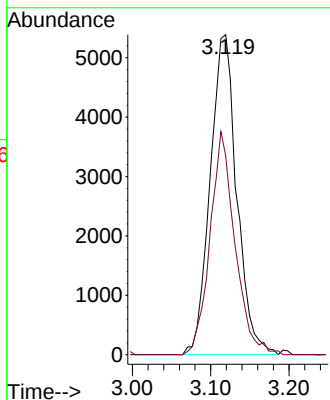
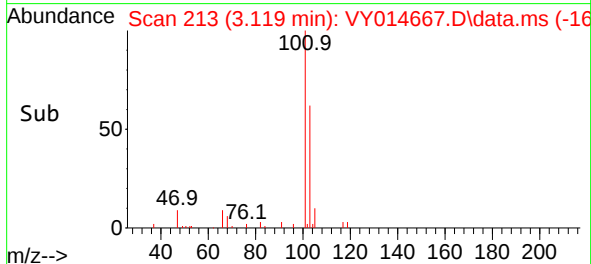
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Tgt Ion: 101 Resp: 12744
 Ion Ratio Lower Upper
 101 100
 103 62.2 51.4 77.0

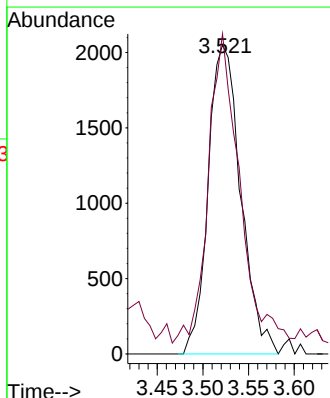
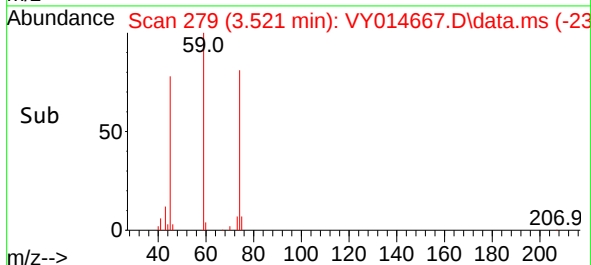
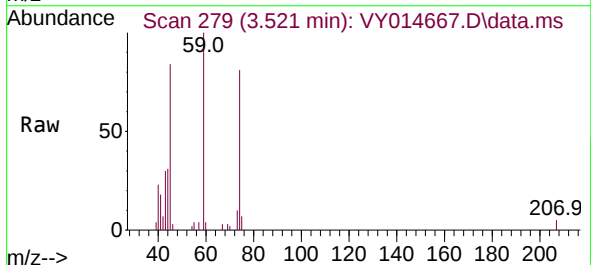
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#8
 Diethyl Ether
 Concen: 2.856 ug/l
 RT: 3.521 min Scan# 279
 Delta R.T. 0.000 min
 Lab File: VY014667.D
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Tgt Ion: 74 Resp: 5075
 Ion Ratio Lower Upper
 74 100
 45 95.9 51.5 154.5





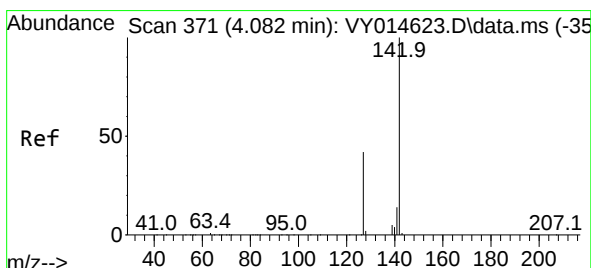
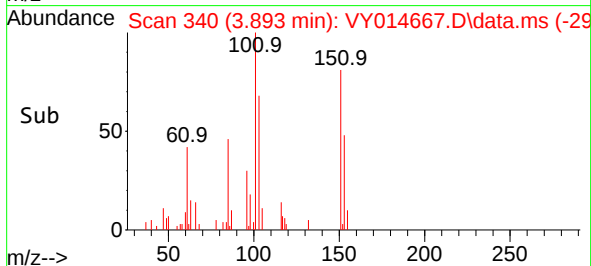
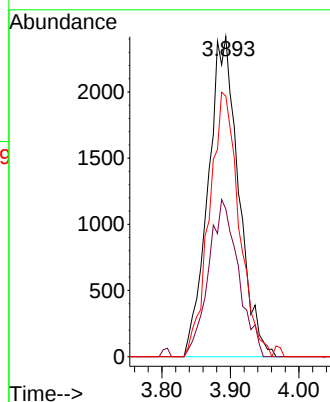
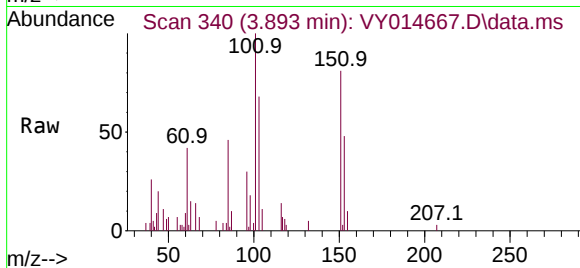
#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.556 ug/l
RT: 3.893 min Scan# 341
Delta R.T. 0.006 min
Lab File: VY014667.D
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Tgt Ion:101 Resp: 748
Ion Ratio Lower Upper
101 100
85 47.8 36.6 55.0
151 80.5 67.0 100.6

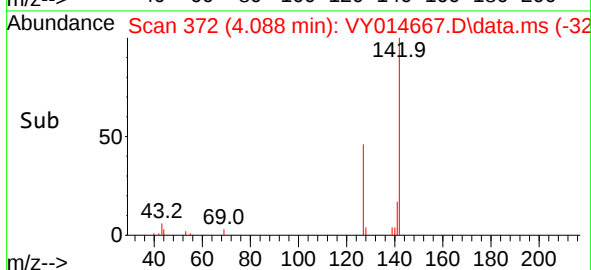
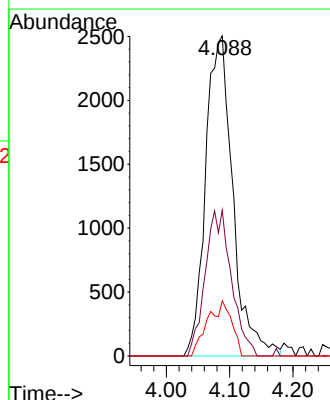
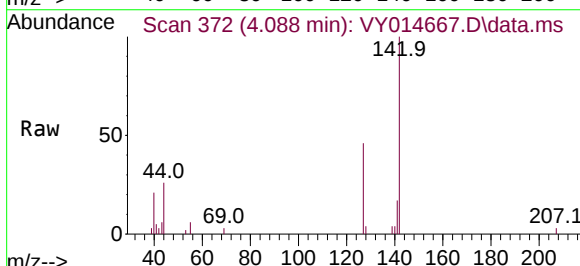
Manual Integrations
APPROVED

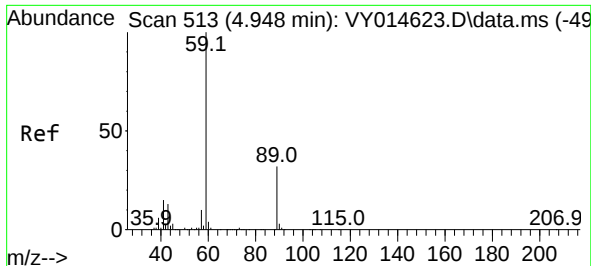
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#10
Methyl Iodide
Concen: 2.737 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

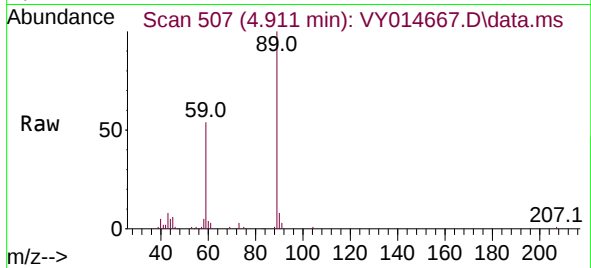
Tgt Ion:142 Resp: 7496
Ion Ratio Lower Upper
142 100
127 43.8 37.6 56.4
141 15.2 11.8 17.8





#11
Tert butyl alcohol
Concen: 54.093 ug/l
RT: 4.911 min Scan# 507
Delta R.T. -0.037 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

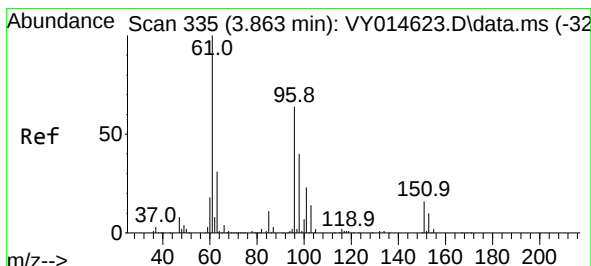
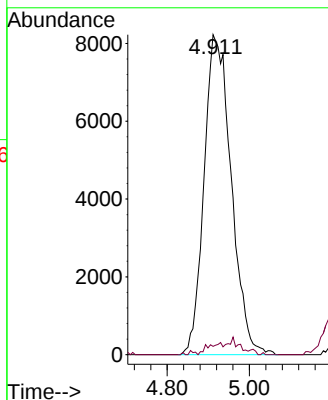
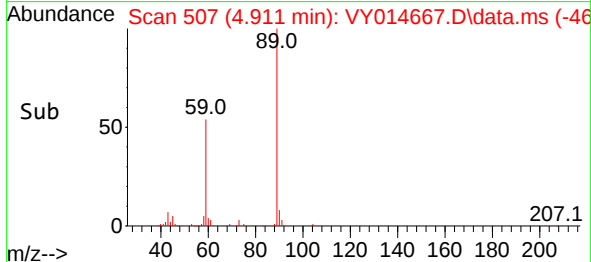
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



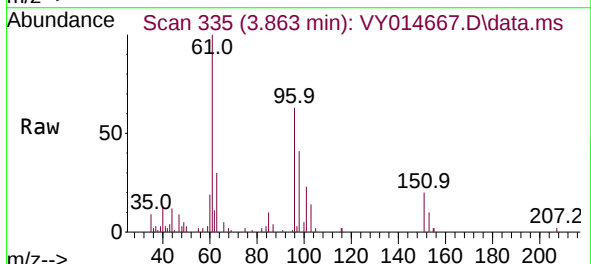
Tgt Ion: 59 Resp: 37692
Ion Ratio Lower Upper
59 100
57 2.0 3.0 4.4

Manual Integrations
APPROVED

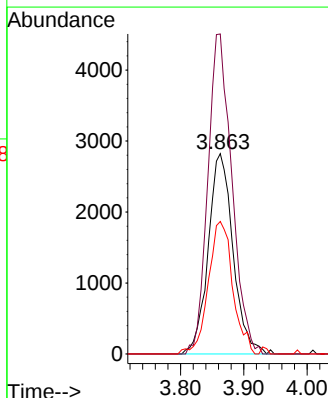
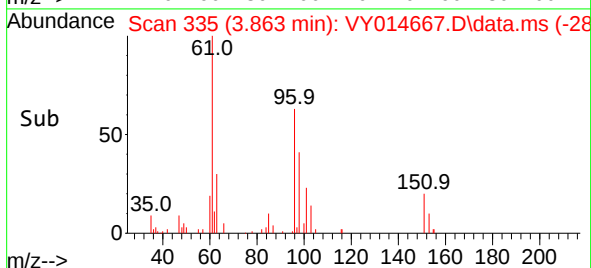
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

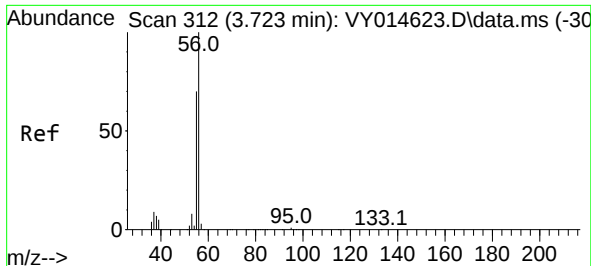


#12
1,1-Dichloroethene
Concen: 2.813 ug/l
RT: 3.863 min Scan# 335
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



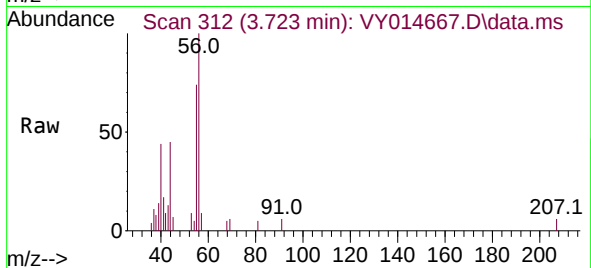
Tgt Ion: 96 Resp: 7696
Ion Ratio Lower Upper
96 100
61 159.8 136.4 204.6
98 66.2 49.4 74.2





#13
Acrolein
Concen: 11.799 ug/l
RT: 3.723 min Scan# 312
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

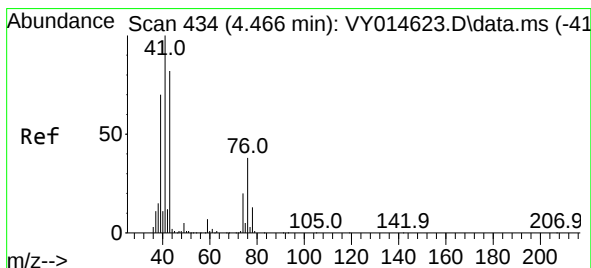
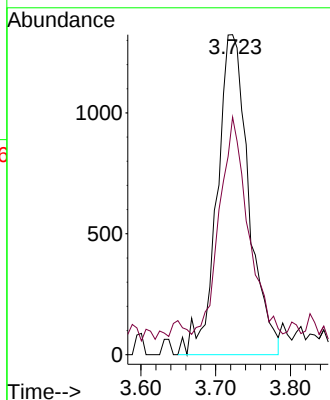
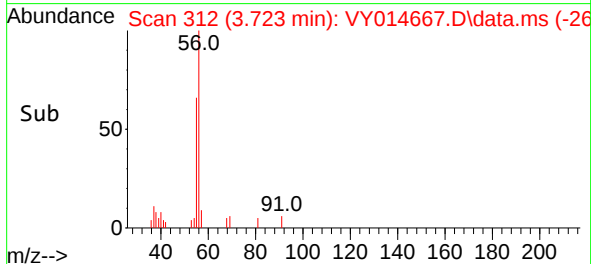
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



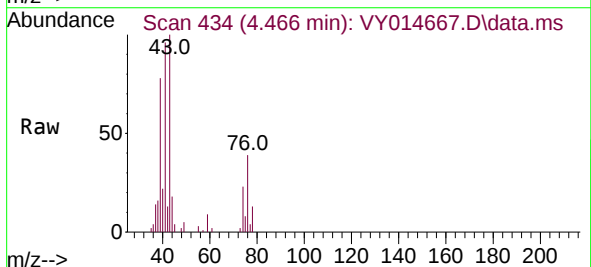
Tgt Ion: 56 Resp: 3904
Ion Ratio Lower Upper
56 100
55 61.6 57.0 85.4

Manual Integrations
APPROVED

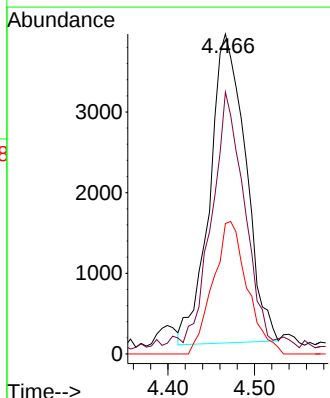
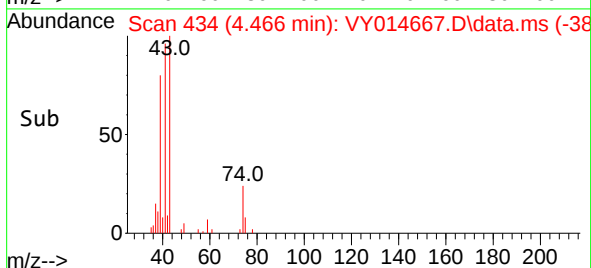
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#14
Allyl chloride
Concen: 2.266 ug/l
RT: 4.466 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



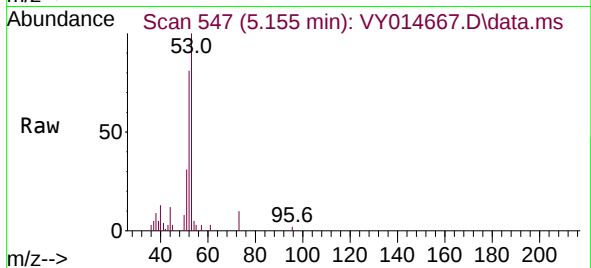
Tgt Ion: 41 Resp: 11006
Ion Ratio Lower Upper
41 100
39 75.2 58.0 87.0
76 40.9 27.4 41.2





#15
Acrylonitrile
Concen: 14.428 ug/l
RT: 5.155 min Scan# 547
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

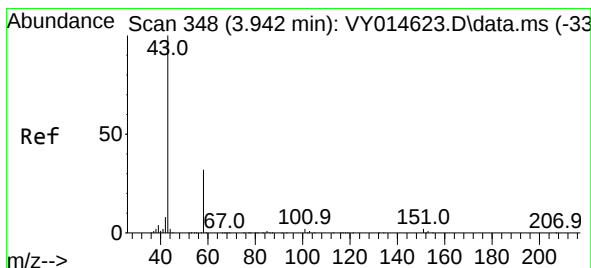
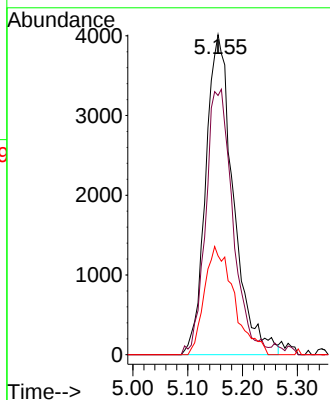
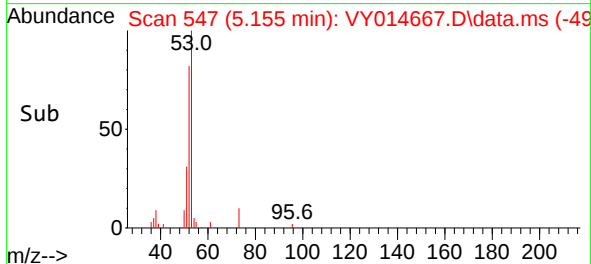
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 53 Resp: 14130
Ion Ratio Lower Upper
53 100
52 81.2 66.9 100.3
51 36.1 29.8 44.6

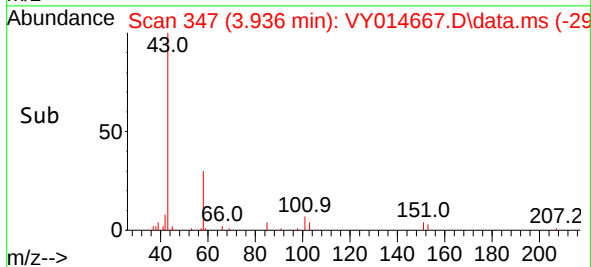
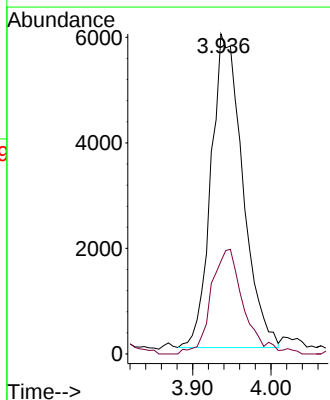
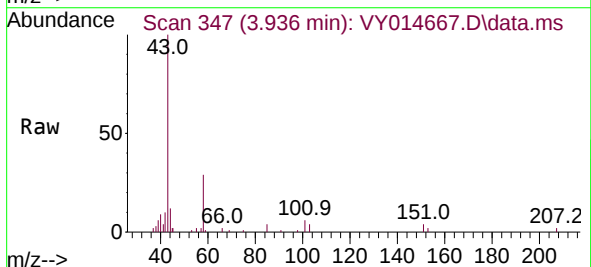
Manual Integrations
APPROVED

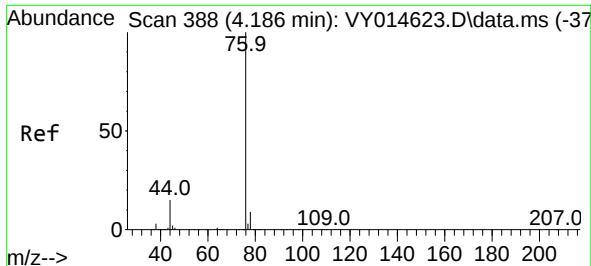
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#16
Acetone
Concen: 16.621 ug/l
RT: 3.936 min Scan# 347
Delta R.T. -0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

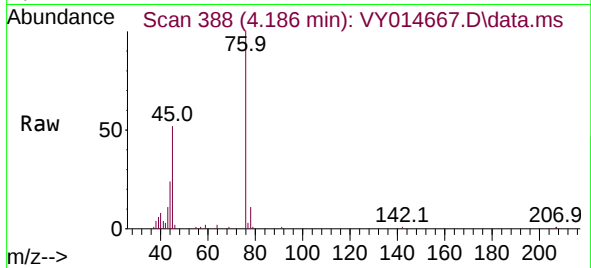
Tgt Ion: 43 Resp: 16673
Ion Ratio Lower Upper
43 100
58 29.5 22.7 34.1





#17
Carbon Disulfide
Concen: 2.781 ug/l
RT: 4.186 min Scan# 388
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

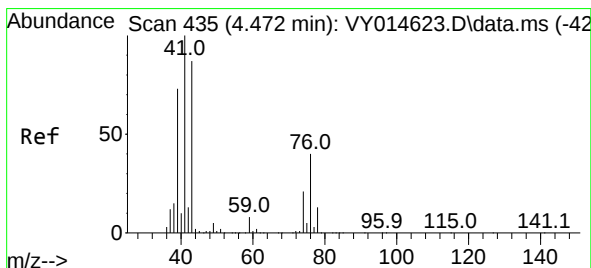
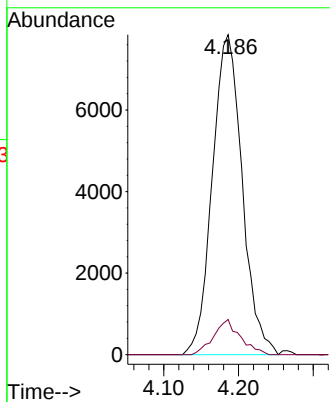
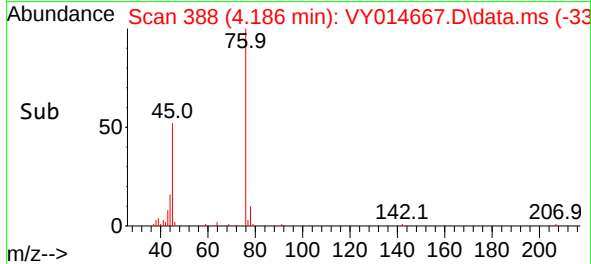
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion: 76 Resp: 2178
Ion Ratio Lower Upper
76 100
78 11.0 7.0 10.4

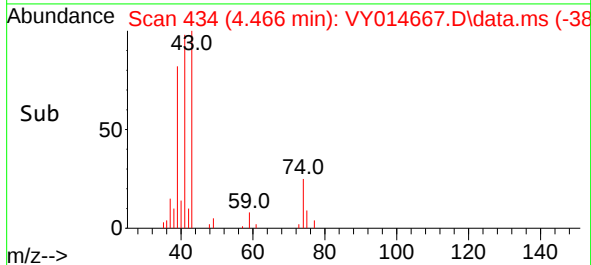
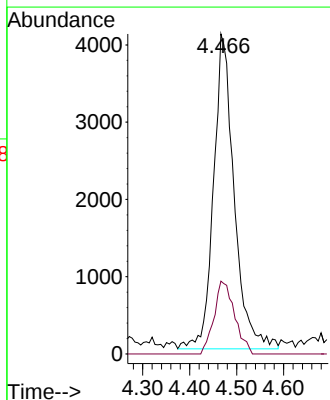
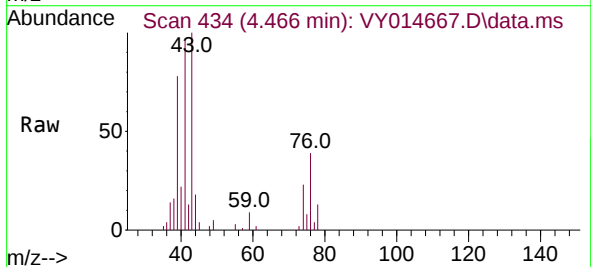
Manual Integrations
APPROVED

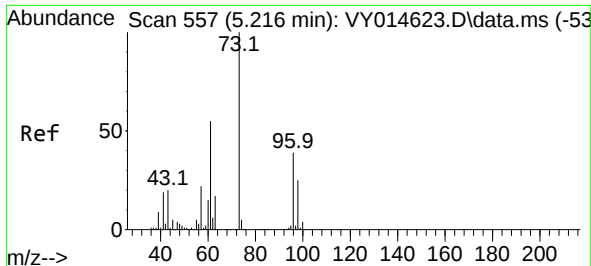
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#18
Methyl Acetate
Concen: 3.244 ug/l
RT: 4.466 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion: 43 Resp: 12488
Ion Ratio Lower Upper
43 100
74 22.8 17.4 26.0





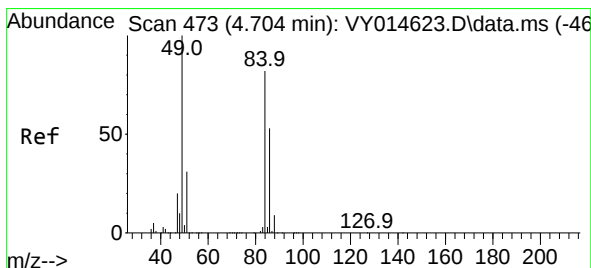
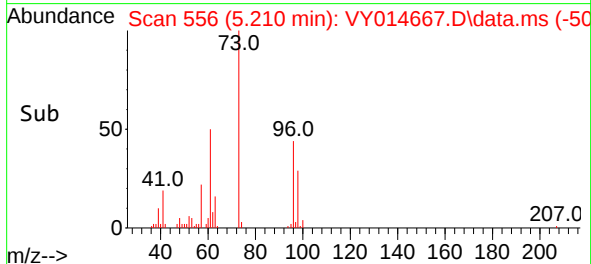
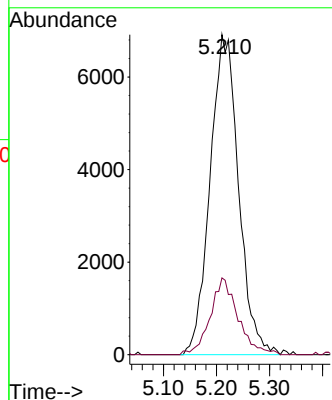
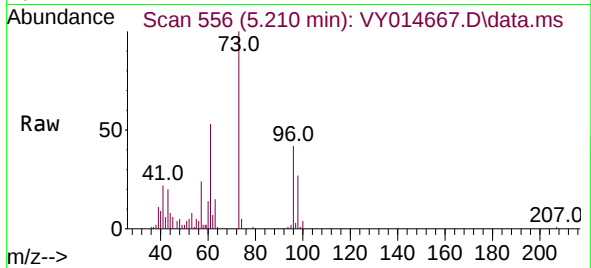
#19
Methyl tert-butyl Ether
Concen: 2.905 ug/l
RT: 5.210 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion: 73 Resp: 25814
Ion Ratio Lower Upper
73 100
57 24.0 17.3 25.9

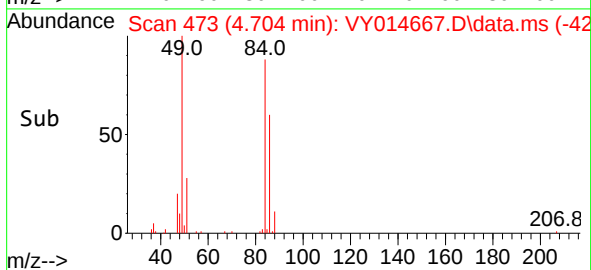
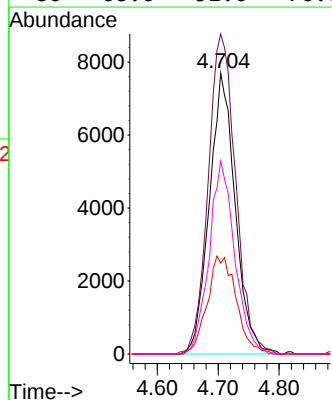
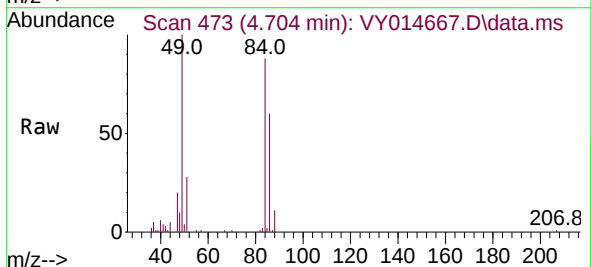
Manual Integrations
APPROVED

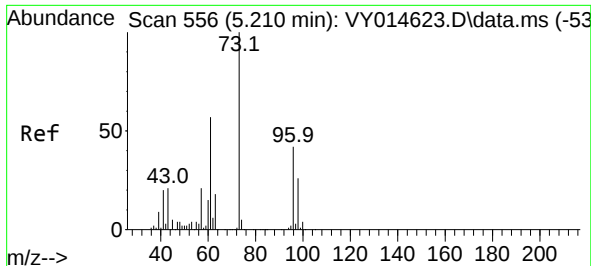
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#20
Methylene Chloride
Concen: 6.215 ug/l
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

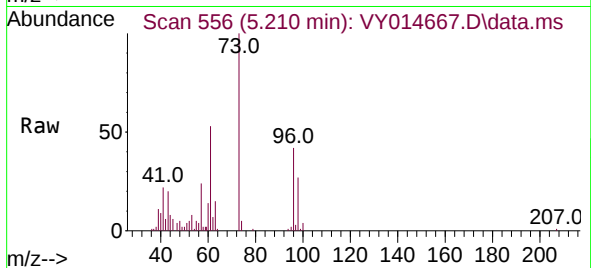
Tgt Ion: 84 Resp: 22666
Ion Ratio Lower Upper
84 100
49 113.9 106.9 160.3
51 32.4 33.2 49.8#
86 68.6 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 2.698 ug/l
RT: 5.210 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

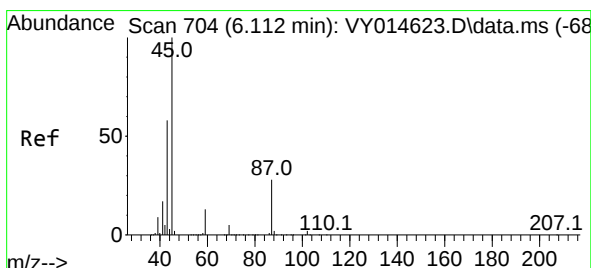
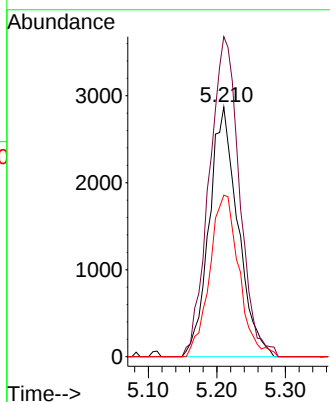
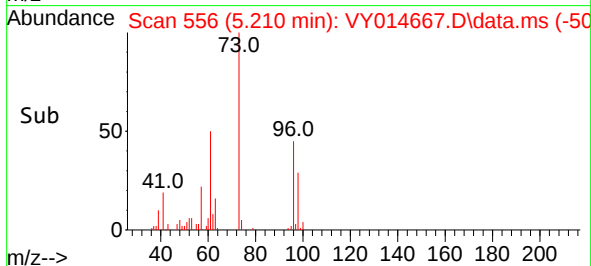
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



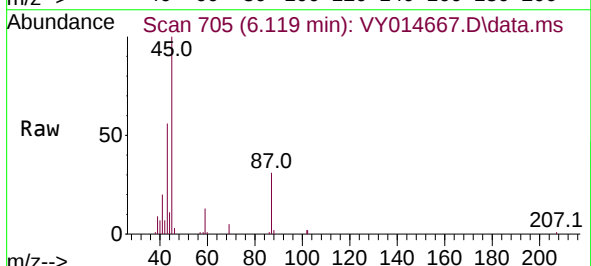
Tgt Ion: 96 Resp: 837
Ion Ratio Lower Upper
96 100
61 128.1 110.2 165.4
98 64.7 51.8 77.6

Manual Integrations
APPROVED

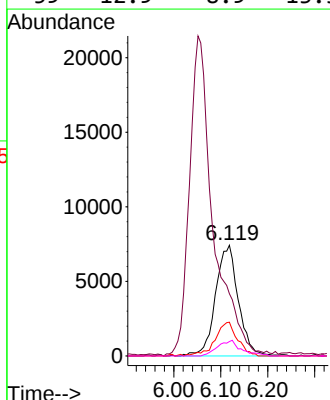
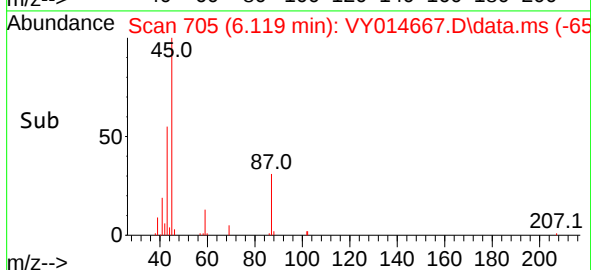
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

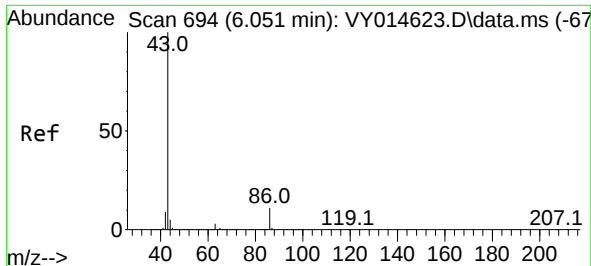


#22
Diisopropyl ether
Concen: 2.532 ug/l
RT: 6.119 min Scan# 705
Delta R.T. 0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



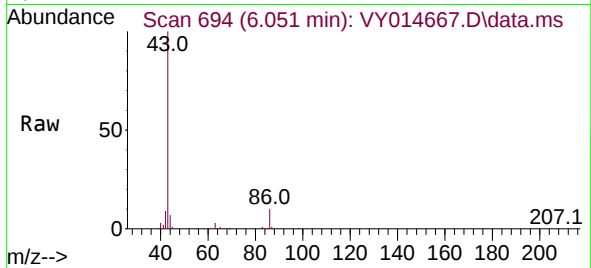
Tgt Ion: 45 Resp: 24999
Ion Ratio Lower Upper
45 100
43 54.7 52.2 78.4
87 30.5 21.0 31.6
59 12.9 8.9 13.3





#23
 Vinyl Acetate
 Concen: 12.826 ug/l
 RT: 6.051 min Scan# 694
 Delta R.T. 0.000 min
 Lab File: VY014667.D
 Acq: 17 Jul 2023 13:09

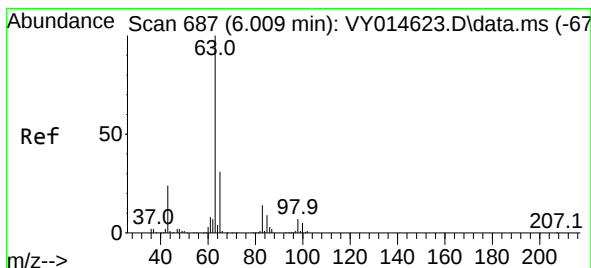
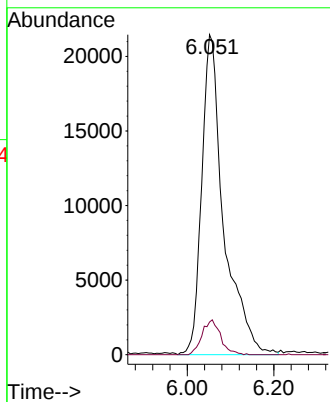
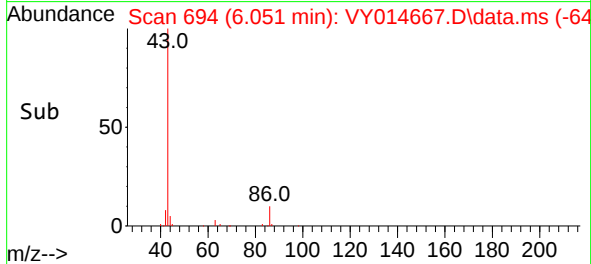
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT3-2023



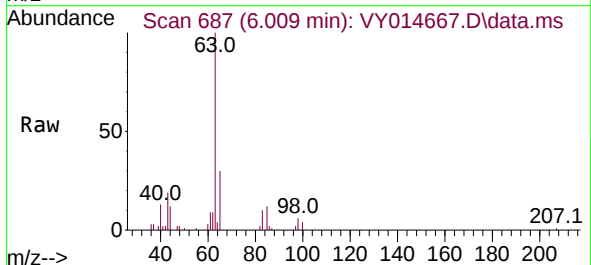
Tgt Ion: 43 Resp: 75798
 Ion Ratio Lower Upper
 43 100
 86 10.2 7.5 11.3

Manual Integrations
 APPROVED

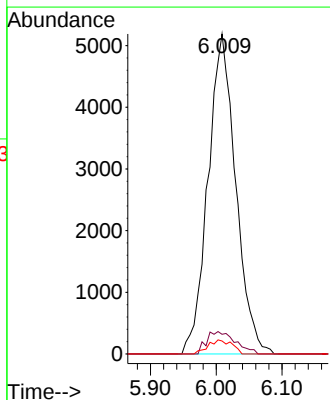
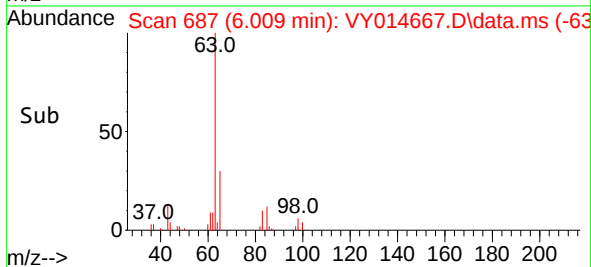
Reviewed By :John Carlone 07/18/2023
 Supervised By :Mahesh Dadoda 07/18/2023

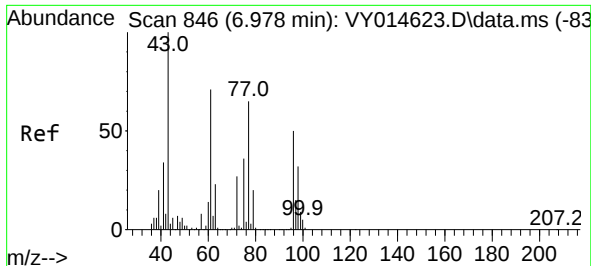


#24
 1,1-Dichloroethane
 Concen: 2.694 ug/l
 RT: 6.009 min Scan# 687
 Delta R.T. -0.000 min
 Lab File: VY014667.D
 Acq: 17 Jul 2023 13:09



Tgt Ion: 63 Resp: 15223
 Ion Ratio Lower Upper
 63 100
 98 6.1 3.1 9.4
 100 4.1 1.8 5.5





#25

2-Butanone

Concen: 19.128 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 43 Resp: 2807

Ion Ratio Lower Upper

43 100

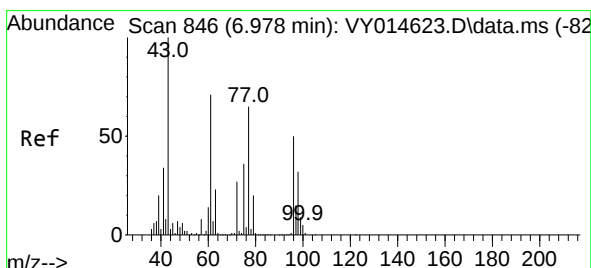
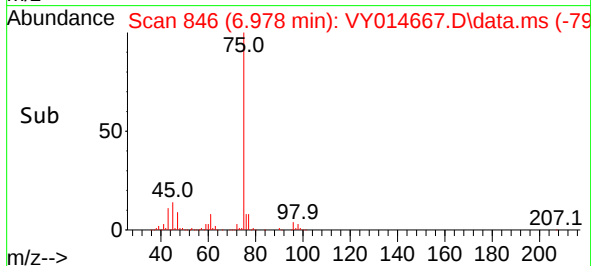
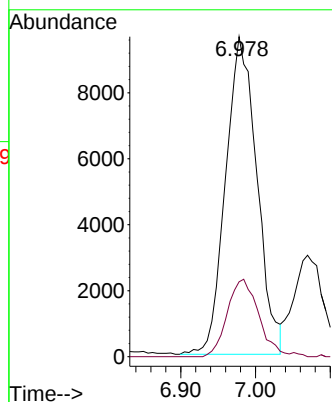
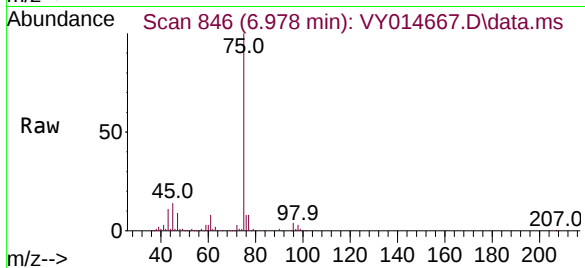
72 23.6 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#26

2,2-Dichloropropane

Concen: 4.322 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.012 min

Lab File: VY014667.D

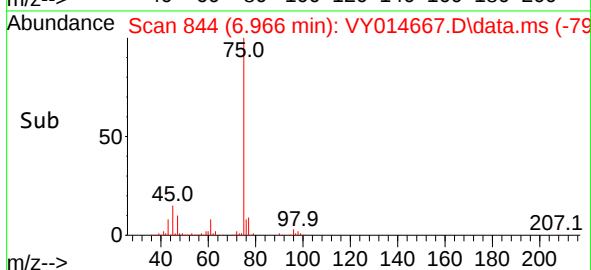
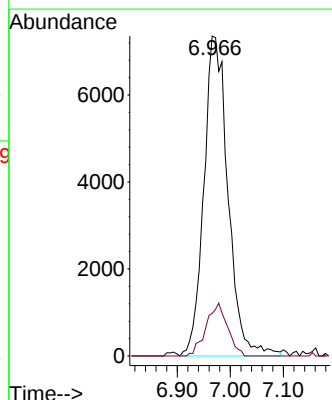
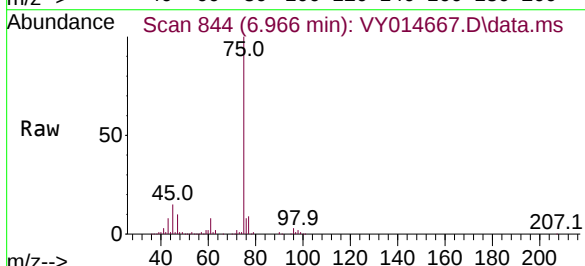
Acq: 17 Jul 2023 13:09

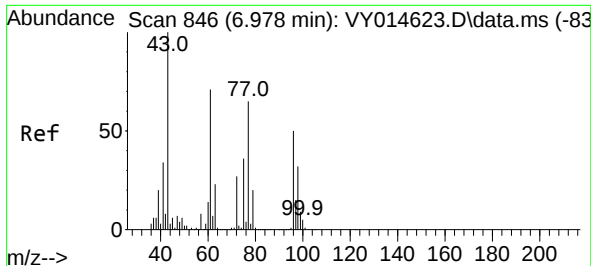
Tgt Ion: 77 Resp: 23273

Ion Ratio Lower Upper

77 100

97 14.6 10.9 32.9





#27

cis-1,2-Dichloroethene

Concen: 2.771 ug/l

RT: 6.984 min Scan# 846

Delta R.T. 0.006 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

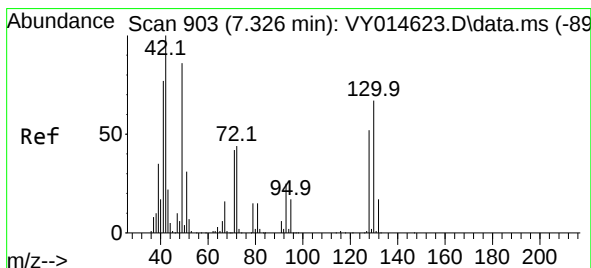
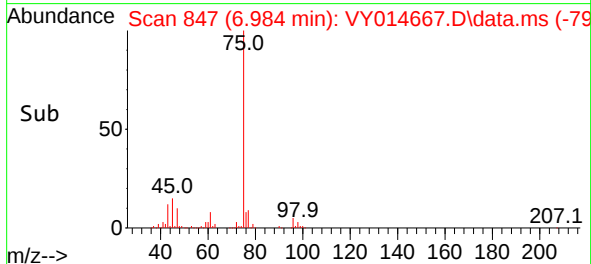
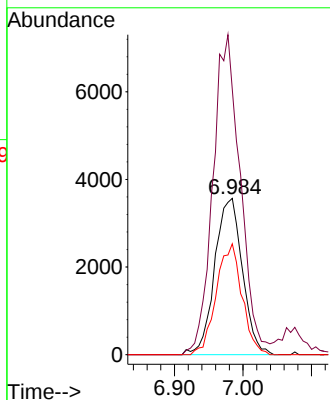
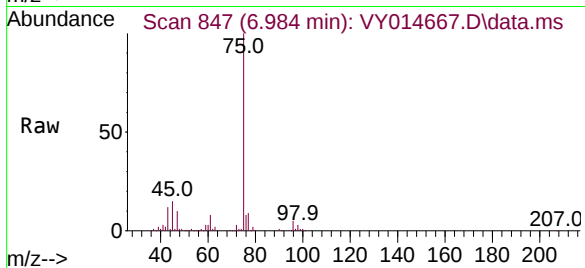
Tgt Ion:	96	Resp:	1001
Ion	Ratio	Lower	Upper
96	100		
61	202.7	0.0	301.4
98	66.0	0.0	130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#28

Bromochloromethane

Concen: 2.301 ug/l

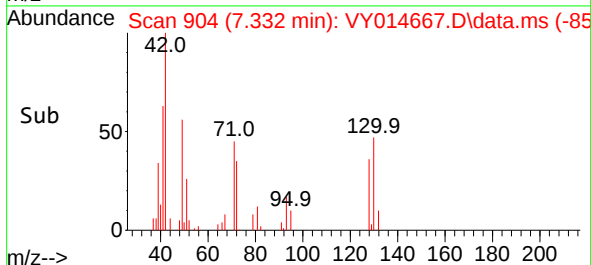
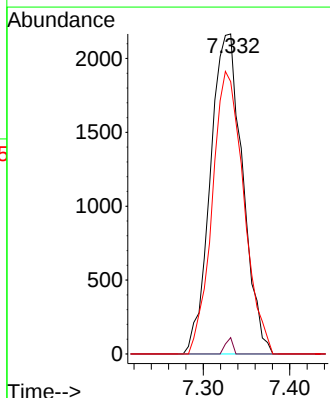
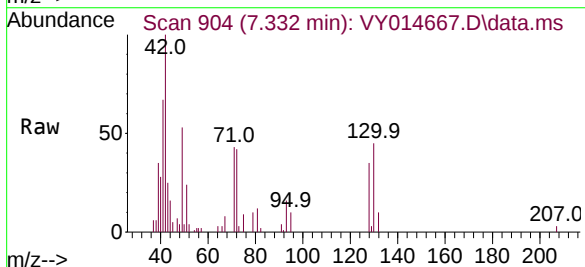
RT: 7.332 min Scan# 904

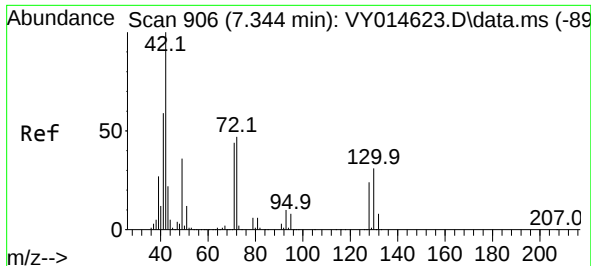
Delta R.T. 0.006 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Tgt Ion:	49	Resp:	5600
Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.6
130	86.4	60.7	91.1





#29

Tetrahydrofuran

Concen: 15.286 ug/l

RT: 7.344 min Scan# 906

Delta R.T. -0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

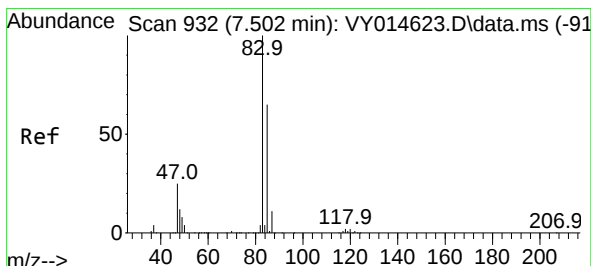
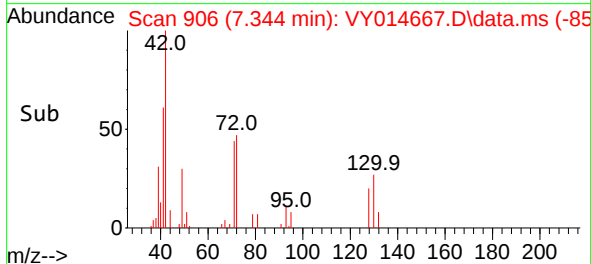
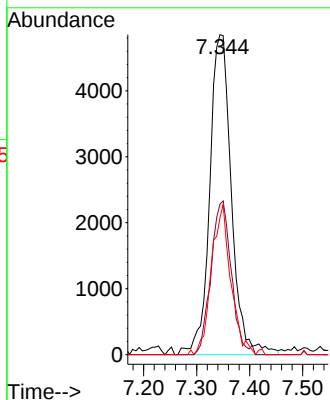
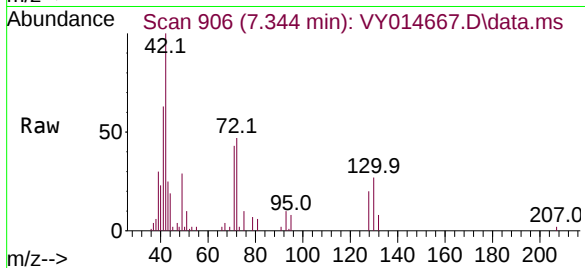
ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion:	42	Resp:	13814
Ion	Ratio	Lower	Upper
42	100		
72	44.8	32.8	49.2
71	41.9	31.0	46.4

Manual Integrations
APPROVED

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



#30

Chloroform

Concen: 2.844 ug/l

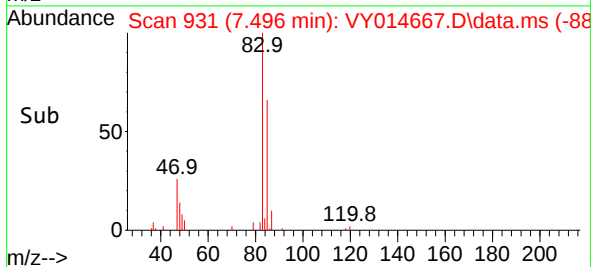
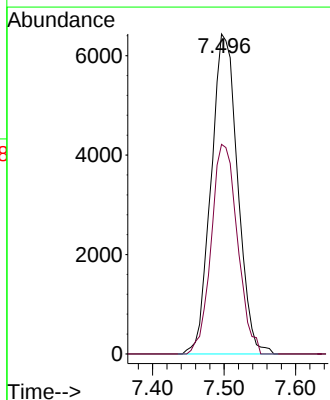
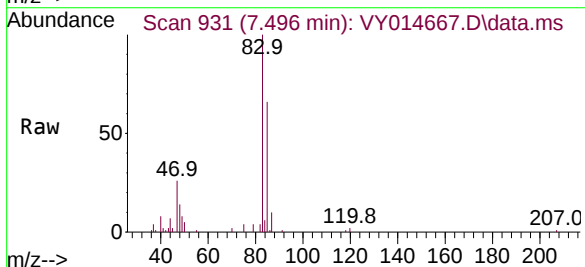
RT: 7.496 min Scan# 931

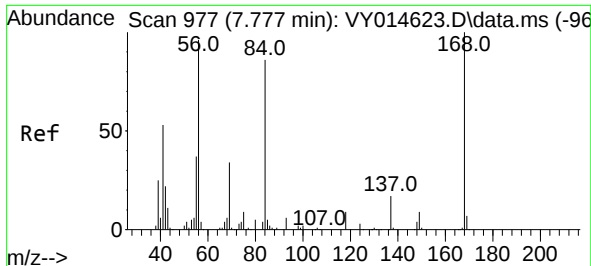
Delta R.T. -0.006 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

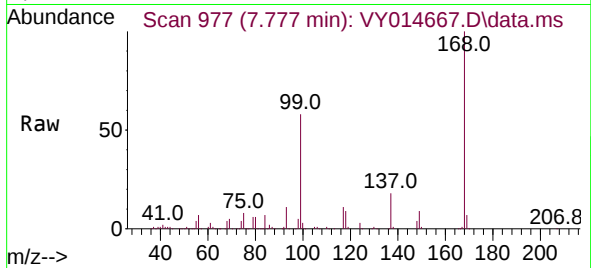
Tgt Ion:	83	Resp:	16571
Ion	Ratio	Lower	Upper
83	100		
85	65.5	49.7	74.5





#31
Cyclohexane
Concen: 3.444 ug/l
RT: 7.777 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

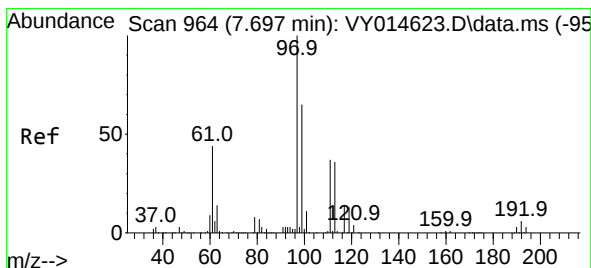
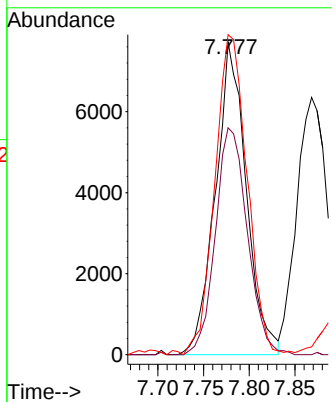
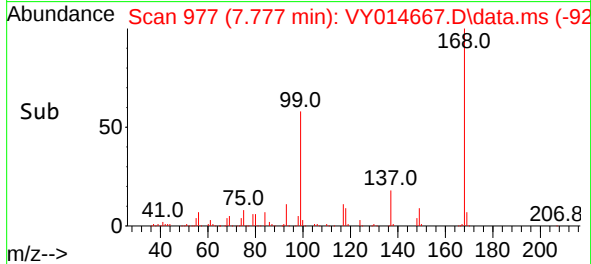
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 56 Resp: 18098
Ion Ratio Lower Upper
56 100
69 72.6 27.8 41.6
84 101.5 66.4 99.6

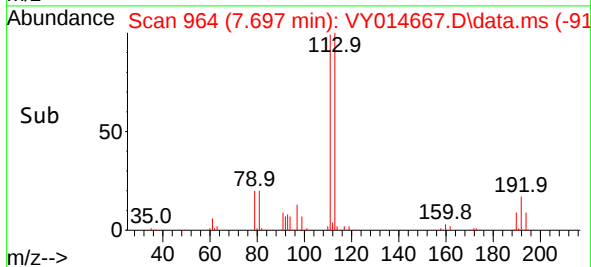
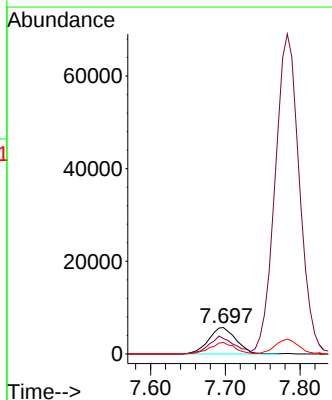
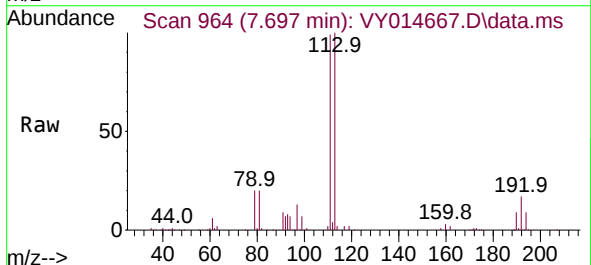
Manual Integrations
APPROVED

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



#32
1,1,1-Trichloroethane
Concen: 2.771 ug/l
RT: 7.697 min Scan# 964
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion: 97 Resp: 14529
Ion Ratio Lower Upper
97 100
99 61.7 50.8 76.2
61 39.4 35.1 52.7





#33

1,2-Dichloroethane-d4

Concen: 53.902 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 65 Resp: 170634

Ion Ratio Lower Upper

65 100

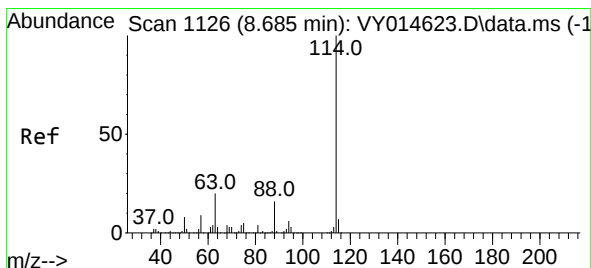
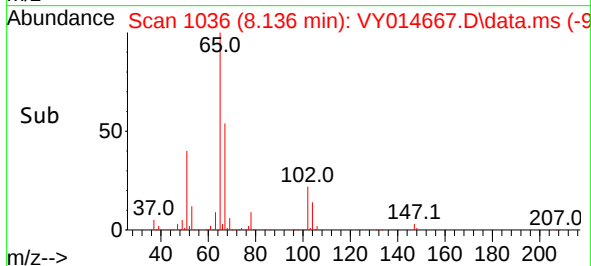
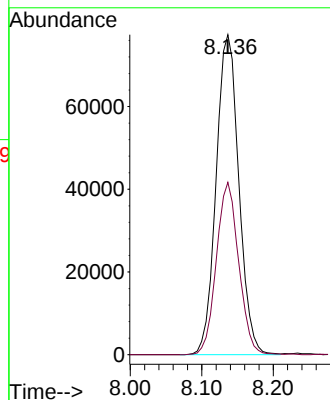
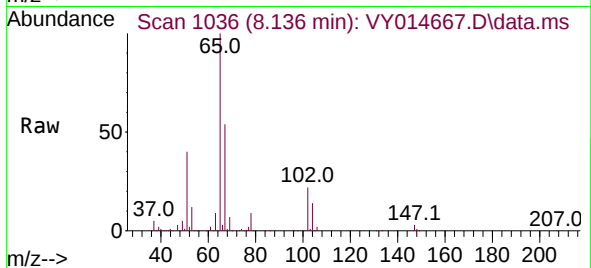
67 52.9 0.0 101.8

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: VY014667.D

Acq: 17 Jul 2023 13:09

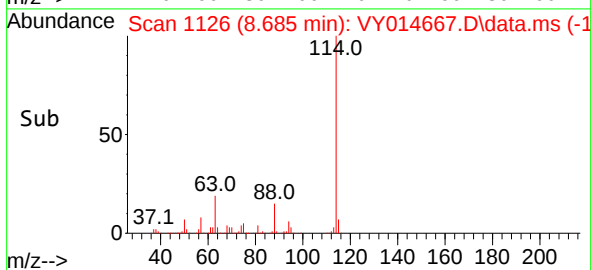
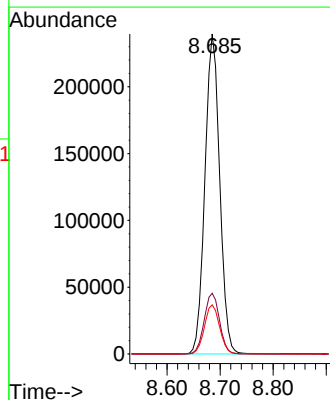
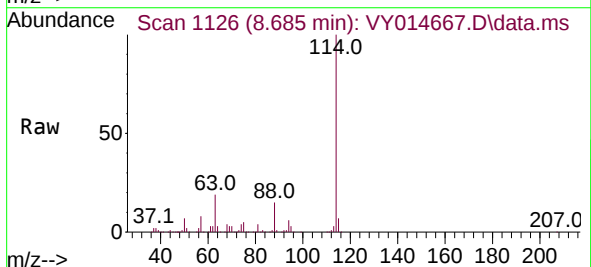
Tgt Ion:114 Resp: 463019

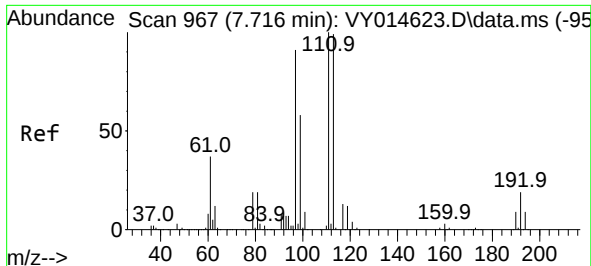
Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

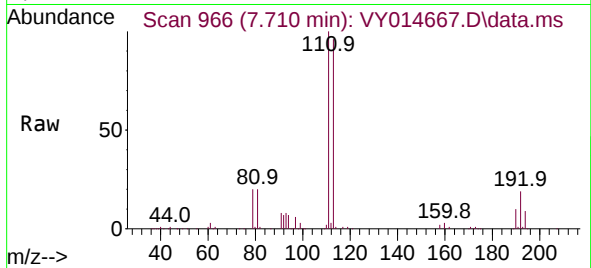
88 15.3 0.0 30.6





#35
Dibromofluoromethane
Concen: 54.083 ug/l
RT: 7.710 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

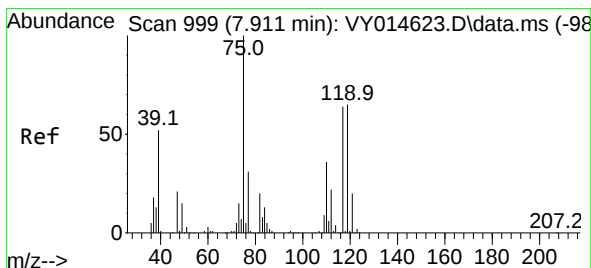
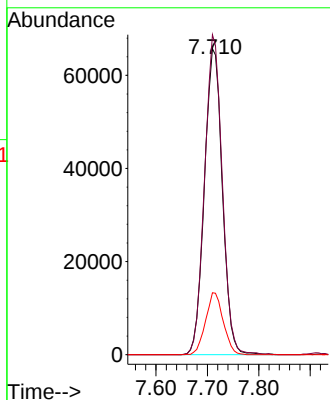
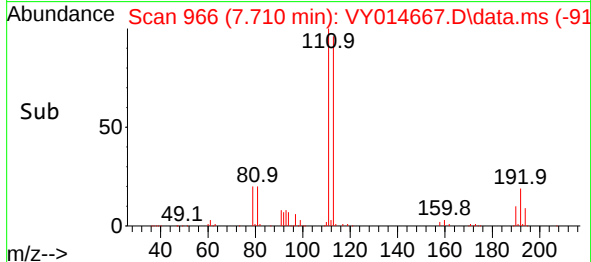
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion:113 Resp: 15940
Ion Ratio Lower Upper
113 100
111 103.0 81.3 121.9
192 19.9 16.9 25.3

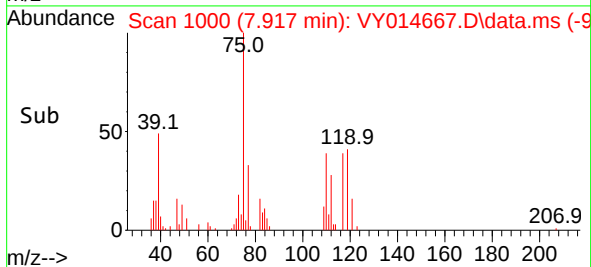
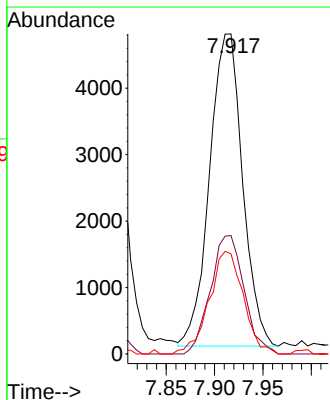
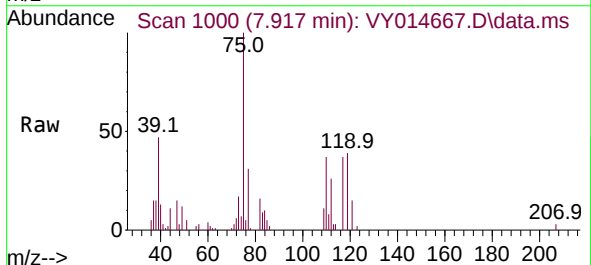
Manual Integrations
APPROVED

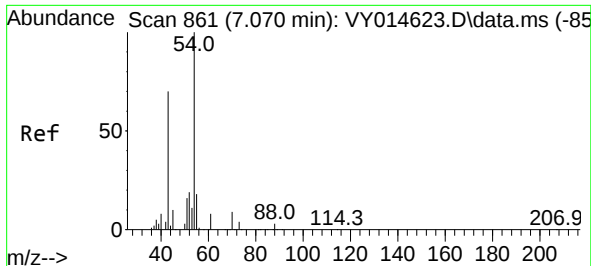
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#36
1,1-Dichloropropene
Concen: 2.528 ug/l
RT: 7.917 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion: 75 Resp: 11143
Ion Ratio Lower Upper
75 100
110 38.5 17.8 53.5
77 34.0 24.4 36.6





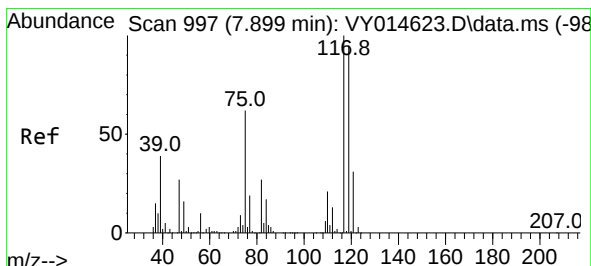
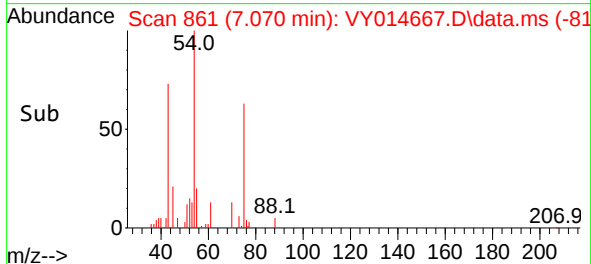
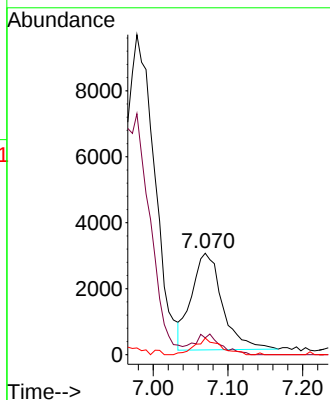
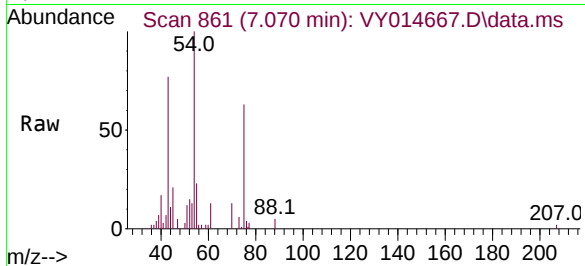
#37
Ethyl Acetate
Concen: 2.783 ug/l
RT: 7.070 min Scan# 861
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion: 43 Resp: 8440
Ion Ratio Lower Upper
43 100
61 18.5 10.1 15.1
70 14.0 7.1 10.7

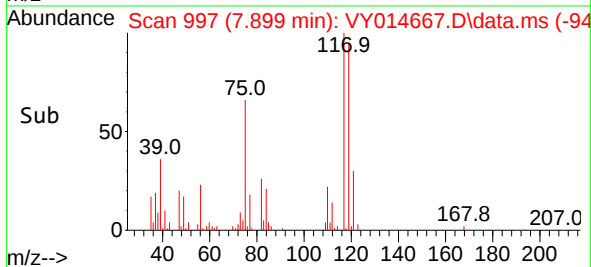
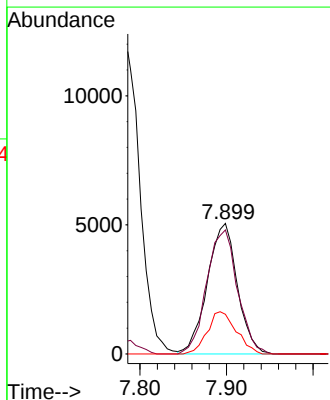
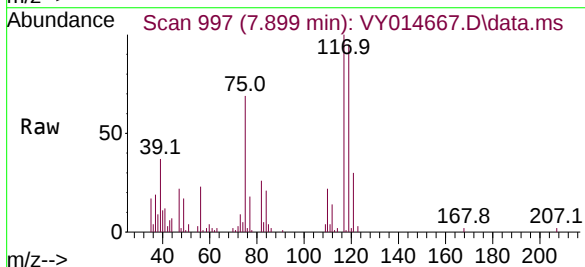
Manual Integrations
APPROVED

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



#38
Carbon Tetrachloride
Concen: 2.614 ug/l
RT: 7.899 min Scan# 997
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

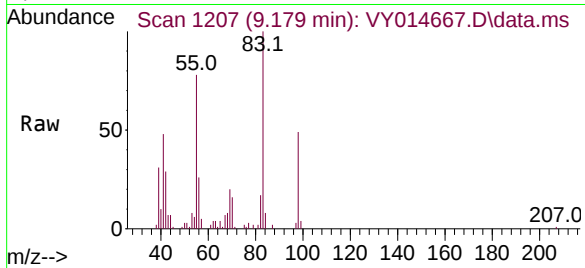
Tgt Ion:117 Resp: 12182
Ion Ratio Lower Upper
117 100
119 94.9 76.4 114.6
121 30.4 25.8 38.6





#39
Methylcyclohexane
Concen: 2.435 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

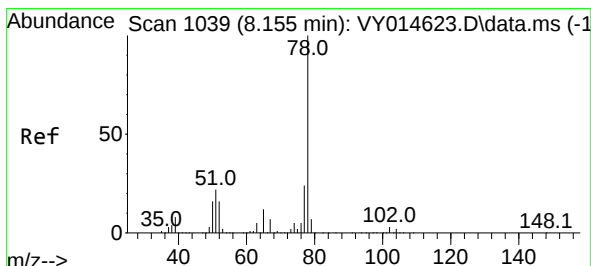
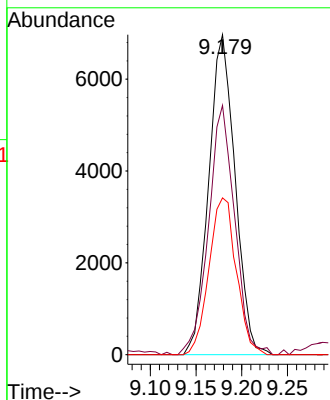
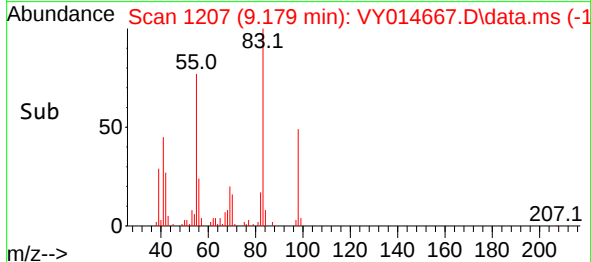
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion: 83 Resp: 1398
Ion Ratio Lower Upper
83 100
55 77.9 63.0 94.4
98 49.0 37.4 56.2

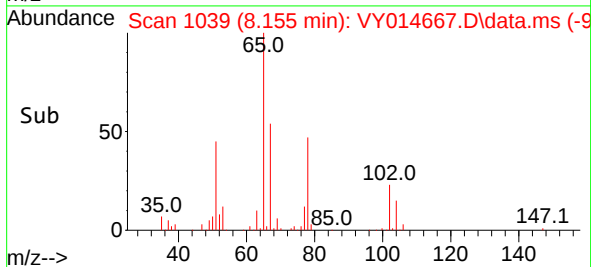
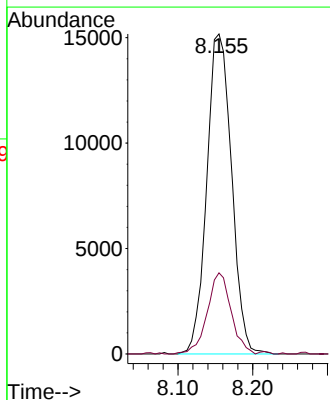
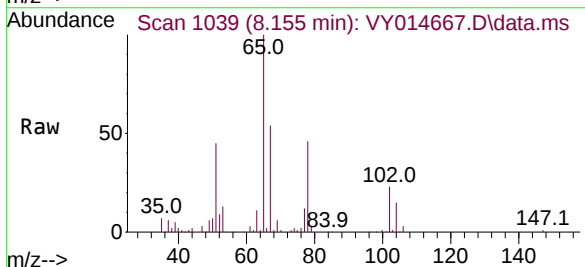
Manual Integrations
APPROVED

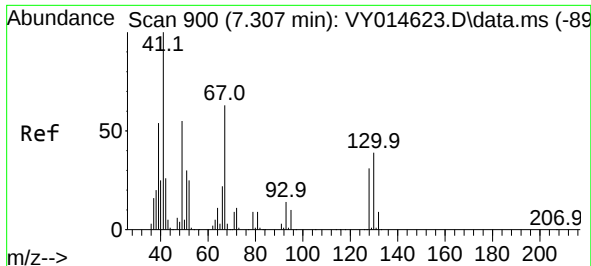
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#40
Benzene
Concen: 2.795 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

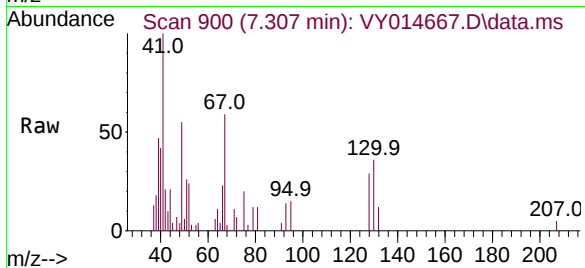
Tgt Ion: 78 Resp: 35035
Ion Ratio Lower Upper
78 100
77 25.4 19.0 28.6





#41
Methacrylonitrile
Concen: 2.623 ug/l
RT: 7.307 min Scan# 900
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

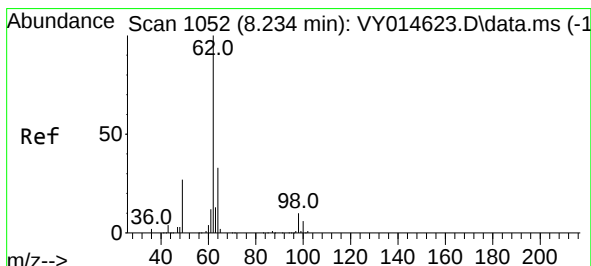
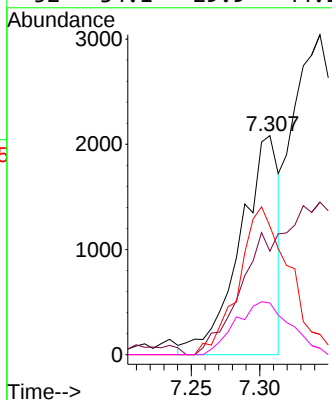
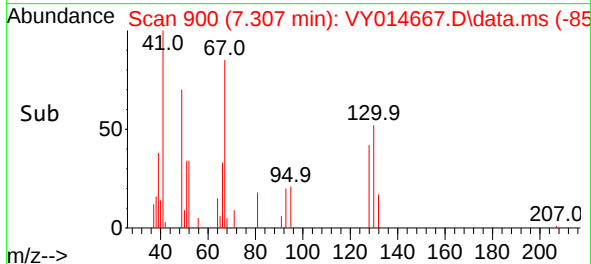
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 41 Resp: 4094
Ion Ratio Lower Upper
41 100
39 0.0 52.1 78.1
67 89.2 66.2 99.2
52 34.1 29.9 44.9

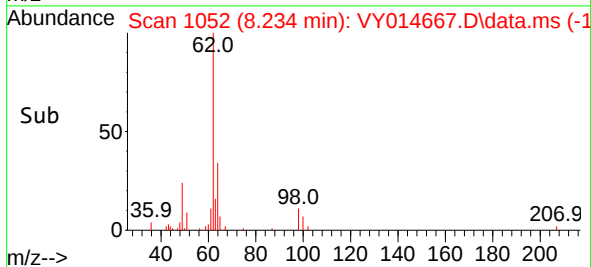
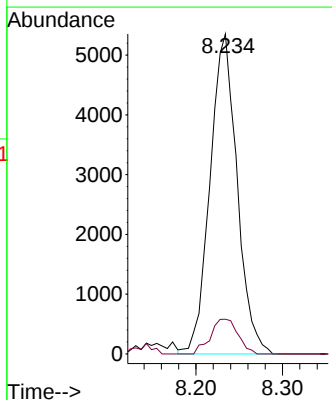
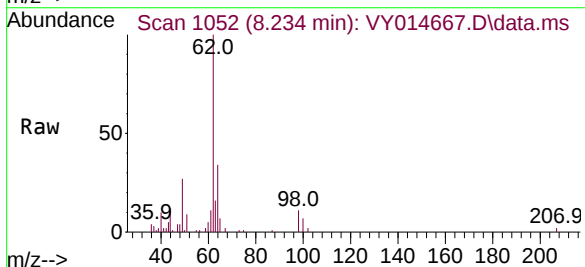
Manual Integrations
APPROVED

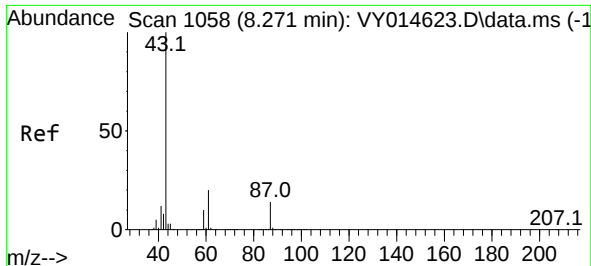
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#42
1,2-Dichloroethane
Concen: 2.932 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

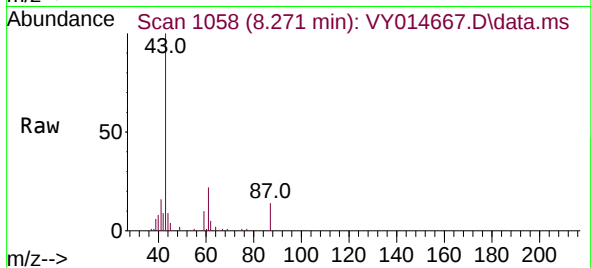
Tgt Ion: 62 Resp: 11638
Ion Ratio Lower Upper
62 100
98 11.0 0.0 15.8





#43
Isopropyl Acetate
Concen: 2.783 ug/l
RT: 8.271 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

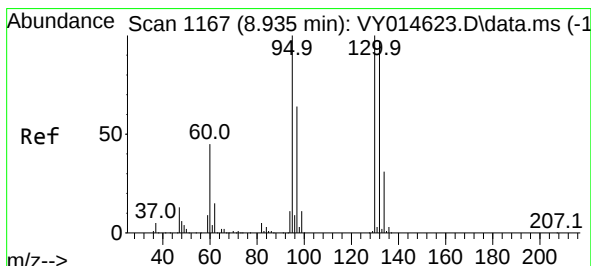
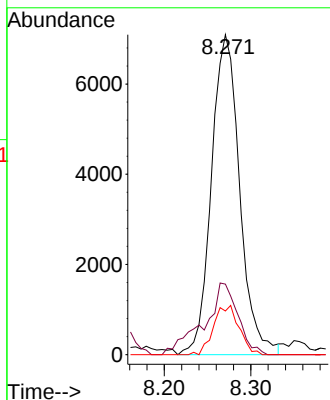
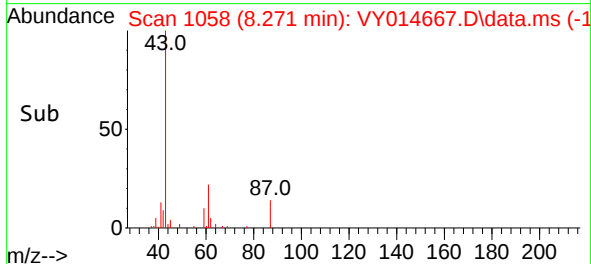
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion: 43 Resp: 1609
Ion Ratio Lower Upper
43 100
61 26.9 21.1 31.7
87 13.9 9.8 14.8

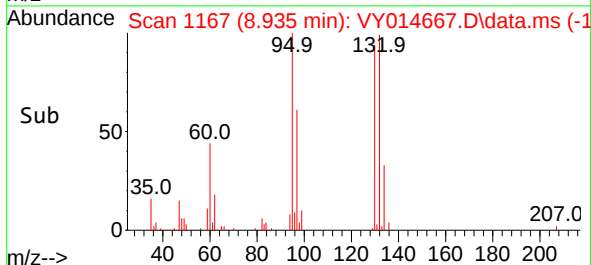
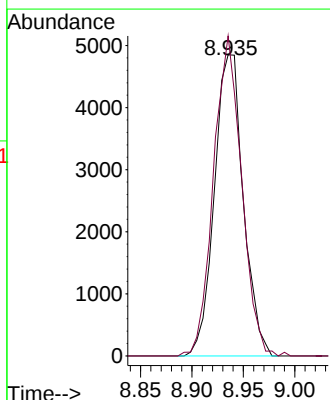
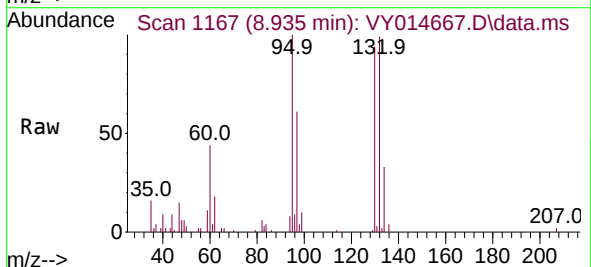
Manual Integrations
APPROVED

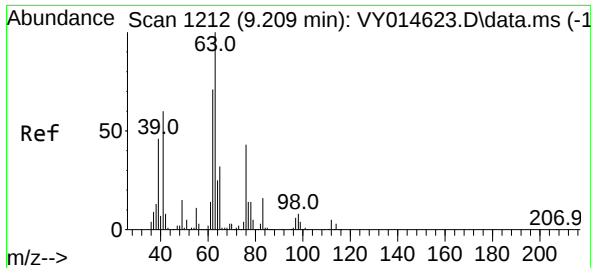
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#44
Trichloroethene
Concen: 2.710 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion:130 Resp: 9507
Ion Ratio Lower Upper
130 100
95 106.3 0.0 196.0





#45

1,2-Dichloropropane

Concen: 2.700 ug/l

RT: 9.209 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 63 Resp: 8838

Ion Ratio Lower Upper

63 100

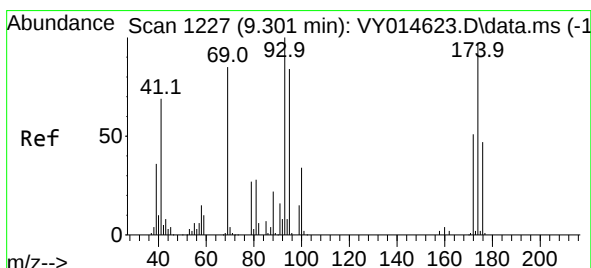
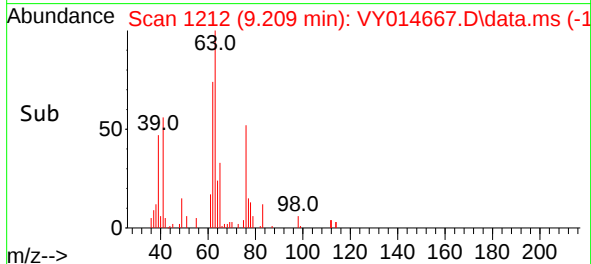
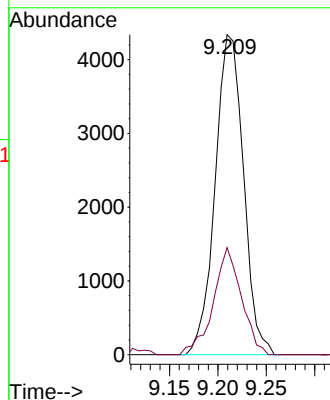
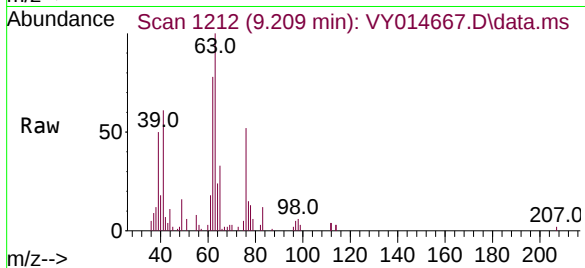
65 33.4 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#46

Dibromomethane

Concen: 2.738 ug/l

RT: 9.301 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

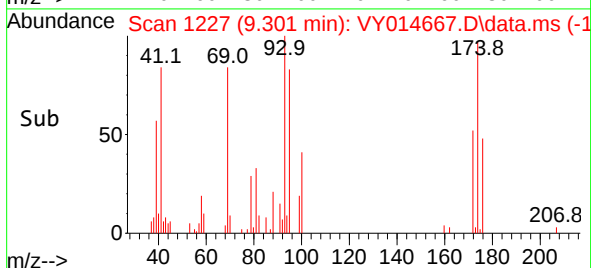
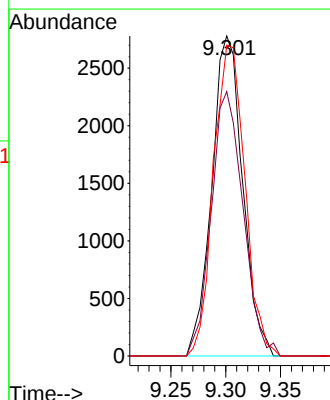
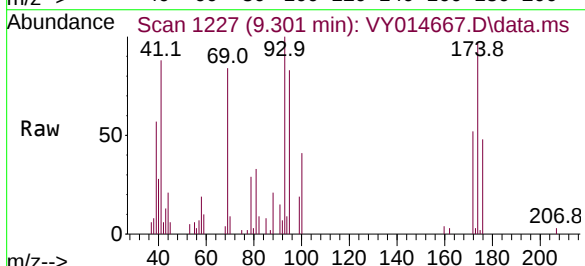
Tgt Ion: 93 Resp: 5437

Ion Ratio Lower Upper

93 100

95 85.3 66.6 100.0

174 99.0 84.8 127.2





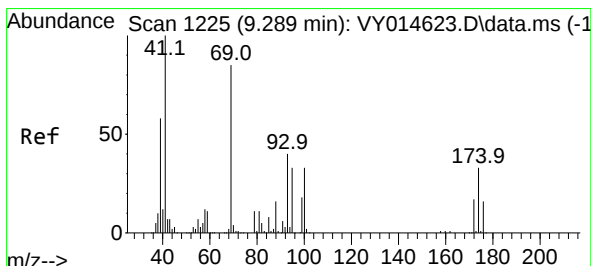
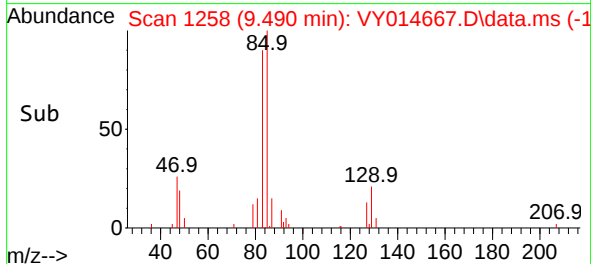
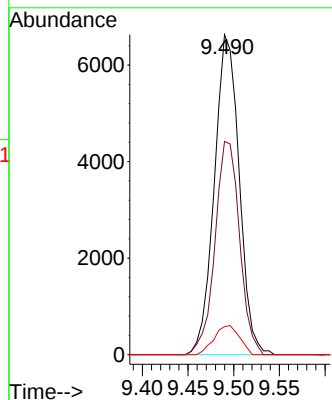
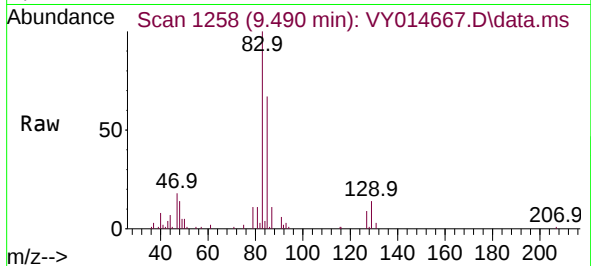
#47
Bromodichloromethane
Concen: 2.683 ug/l
RT: 9.490 min Scan# 1259
Delta R.T. -0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion: 83 Resp: 1255
Ion Ratio Lower Upper
83 100
85 66.6 50.1 75.1
127 8.7 7.1 10.7

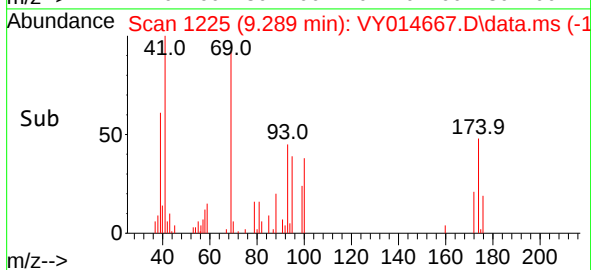
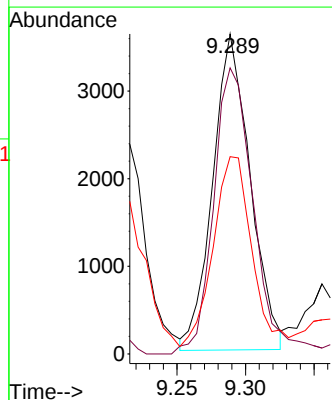
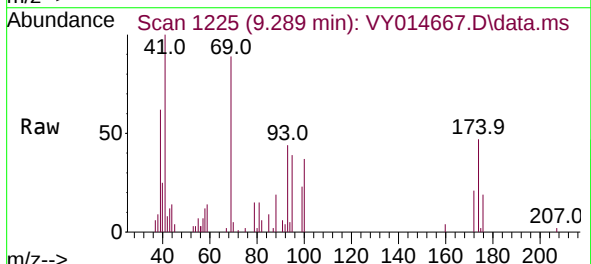
Manual Integrations
APPROVED

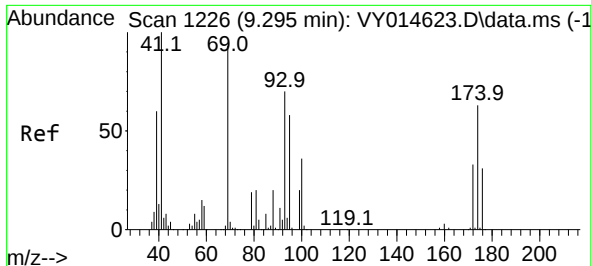
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#48
Methyl methacrylate
Concen: 2.644 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion: 41 Resp: 6878
Ion Ratio Lower Upper
41 100
69 96.7 64.5 96.7#
39 61.6 50.8 76.2





#49

1,4-Dioxane

Concen: 57.595 ug/l

RT: 9.289 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

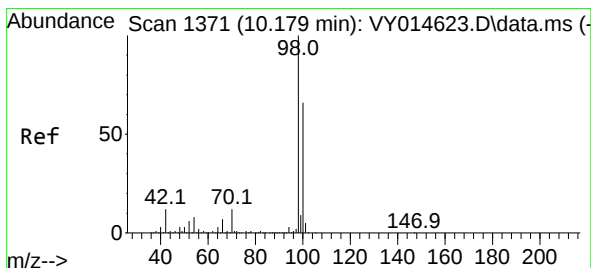
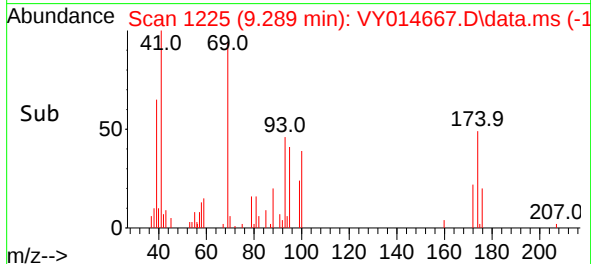
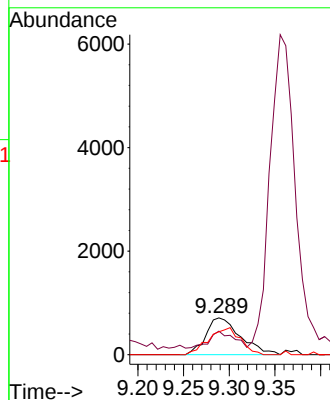
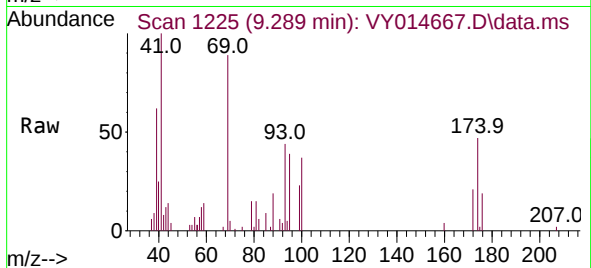
Tgt Ion: 88 Resp: 186
 Ion Ratio Lower Upper
 88 100
 43 29.9 0.0 0.0
 58 67.2 30.9 46.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#50

Toluene-d8

Concen: 52.522 ug/l

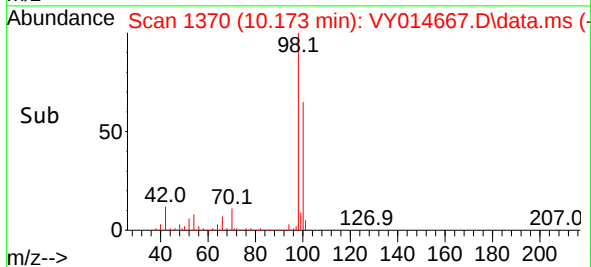
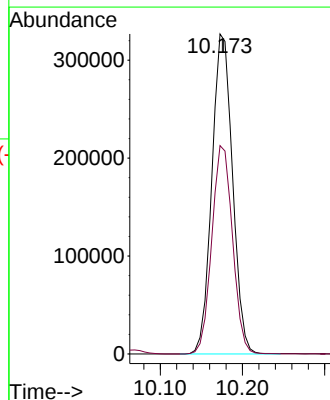
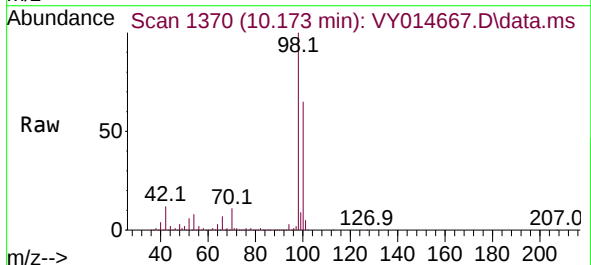
RT: 10.173 min Scan# 1370

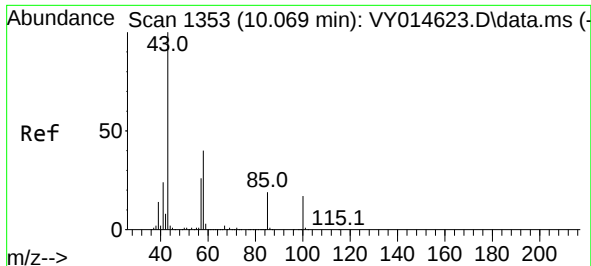
Delta R.T. -0.006 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Tgt Ion: 98 Resp: 570740
 Ion Ratio Lower Upper
 98 100
 100 65.3 50.1 75.1





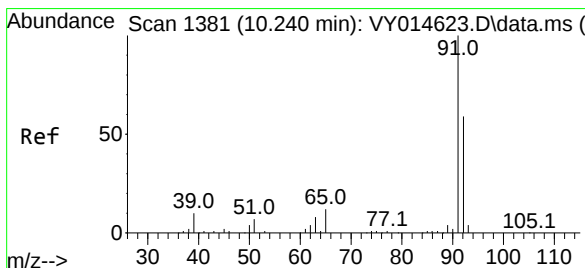
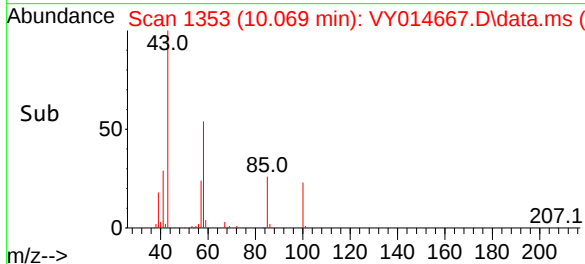
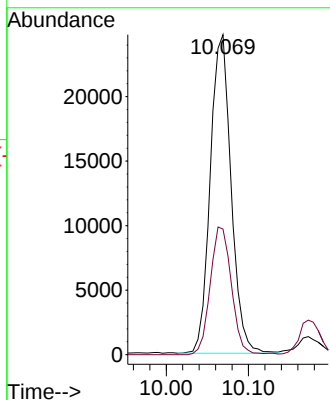
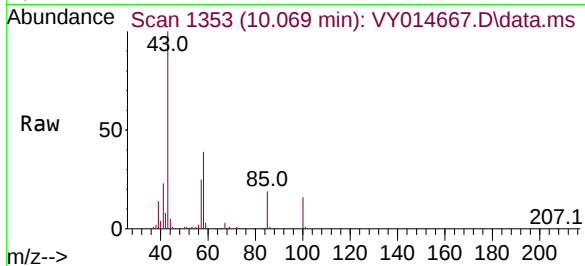
#51
4-Methyl-2-Pentanone
Concen: 14.342 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion: 43 Resp: 4353
Ion Ratio Lower Upper
43 100
58 40.8 29.0 43.6

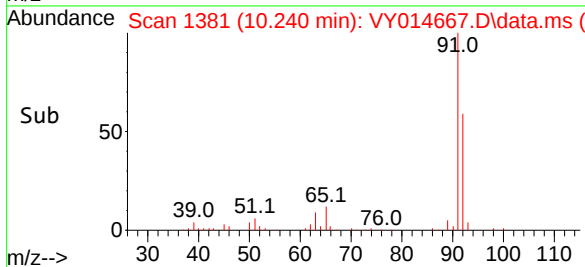
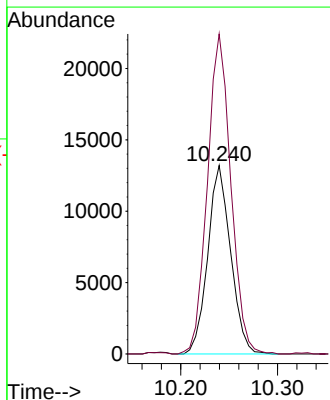
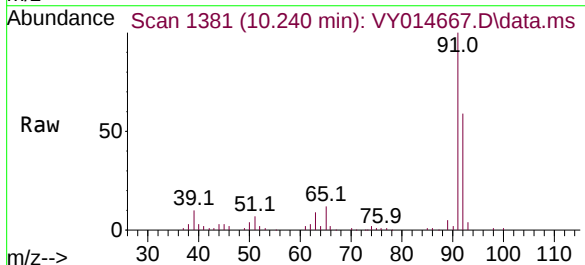
Manual Integrations
APPROVED

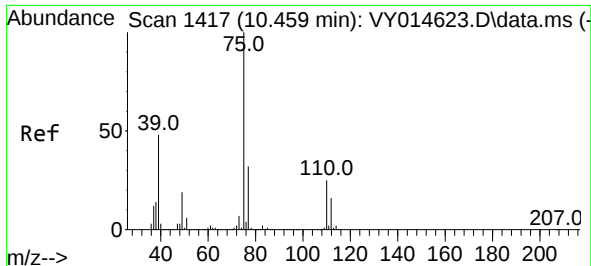
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#52
Toluene
Concen: 2.706 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion: 92 Resp: 21710
Ion Ratio Lower Upper
92 100
91 173.8 143.8 215.6





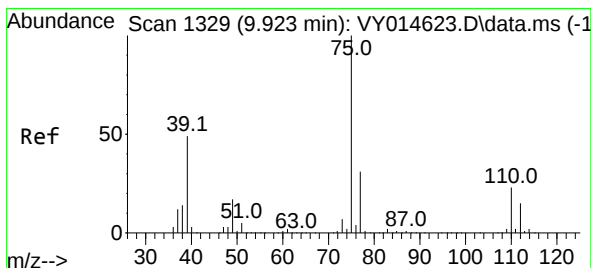
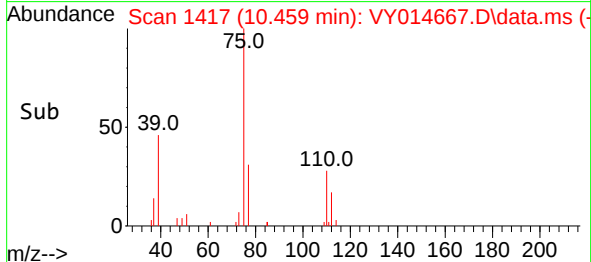
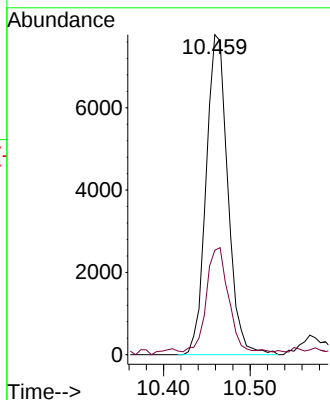
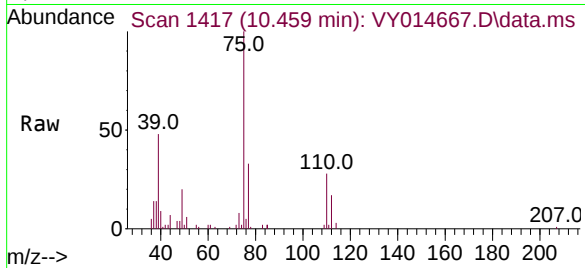
#53
t-1,3-Dichloropropene
Concen: 2.648 ug/l
RT: 10.459 min Scan# 1417
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion: 75 Resp: 1355
Ion Ratio Lower Upper
75 100
77 31.5 25.0 37.4

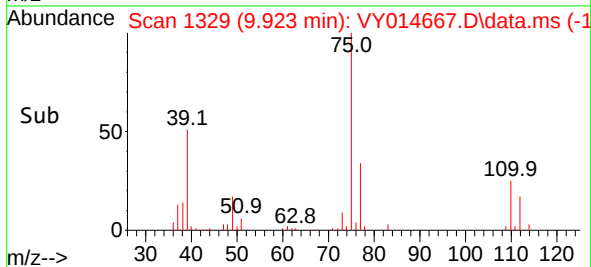
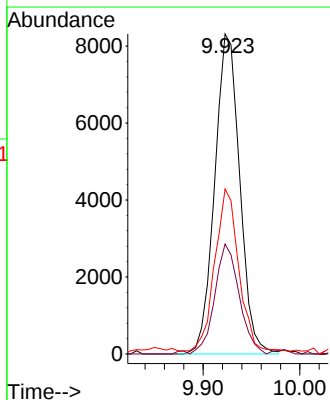
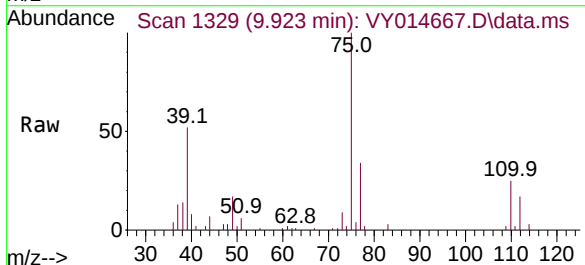
Manual Integrations
APPROVED

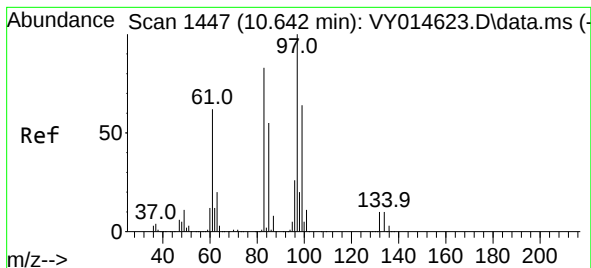
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#54
cis-1,3-Dichloropropene
Concen: 2.684 ug/l
RT: 9.923 min Scan# 1329
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

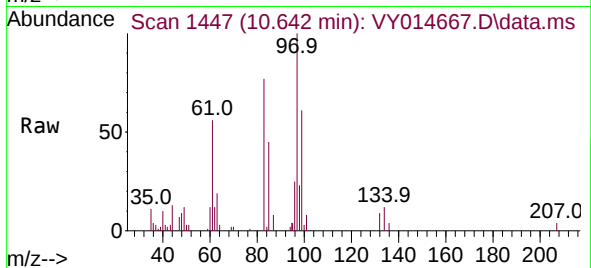
Tgt Ion: 75 Resp: 14941
Ion Ratio Lower Upper
75 100
77 33.6 24.2 36.4
39 50.5 42.2 63.4





#55
1,1,2-Trichloroethane
Concen: 2.905 ug/l
RT: 10.642 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

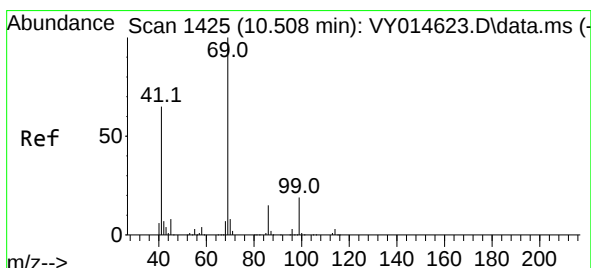
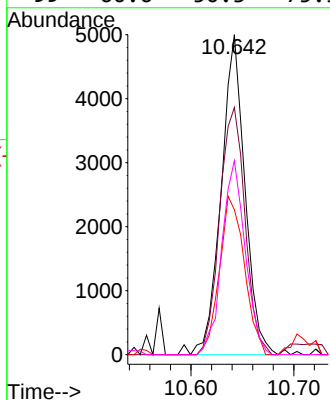
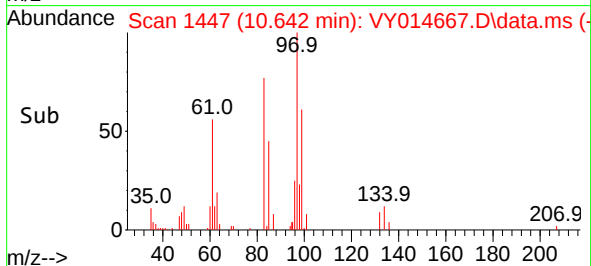
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



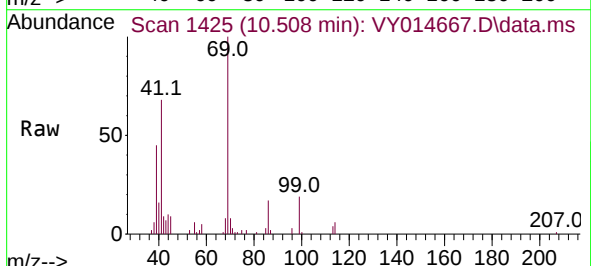
Tgt Ion:	97	Resp:	803
Ion Ratio	100	Lower	Upper
97	100		
83	77.3	72.0	108.0
85	45.3	45.4	68.0
99	60.6	50.3	75.5

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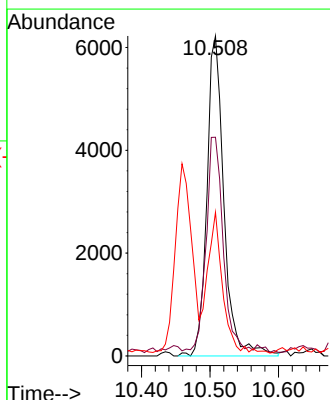
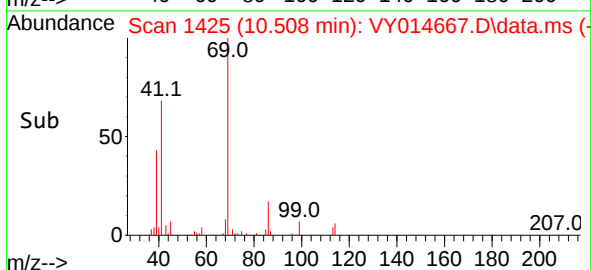
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

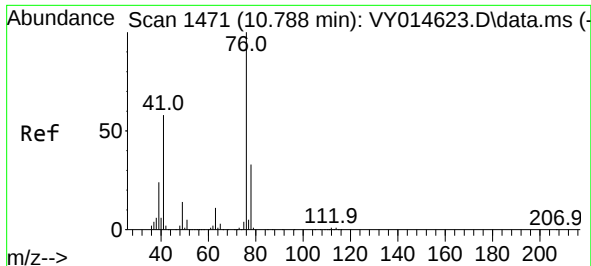


#56
Ethyl methacrylate
Concen: 2.546 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



Tgt Ion:	69	Resp:	10752
Ion Ratio	100	Lower	Upper
69	100		
41	65.6	57.6	86.4
39	39.5	34.1	51.1





#57

1,3-Dichloropropane

Concen: 2.713 ug/l

RT: 10.788 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VY014667.D

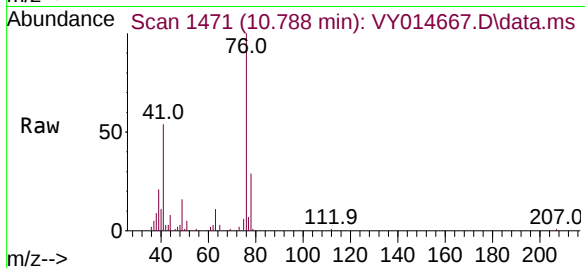
Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023



Tgt Ion: 76 Resp: 1294

Ion Ratio Lower Upper

76 100

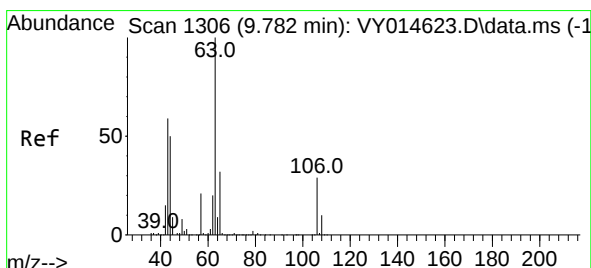
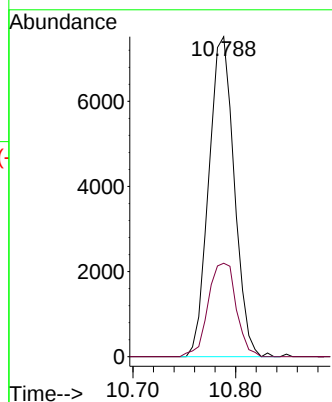
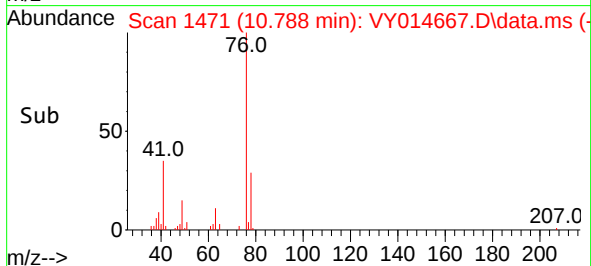
78 32.1 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#58

2-Chloroethyl Vinyl ether

Concen: 12.358 ug/l

RT: 9.776 min Scan# 1305

Delta R.T. -0.006 min

Lab File: VY014667.D

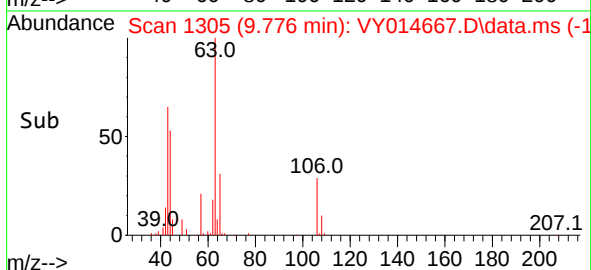
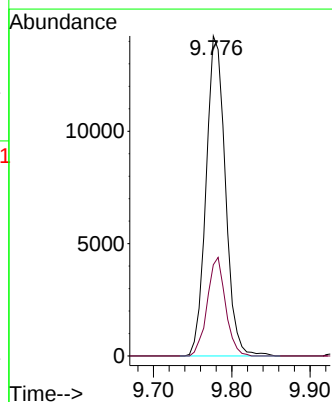
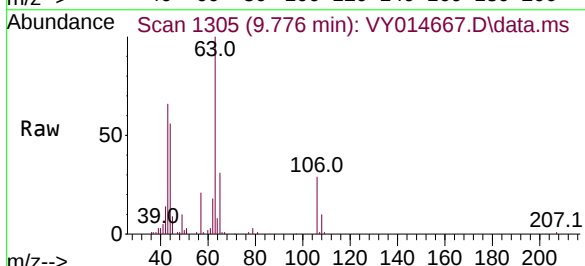
Acq: 17 Jul 2023 13:09

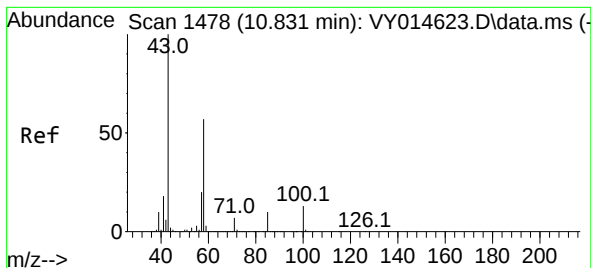
Tgt Ion: 63 Resp: 24320

Ion Ratio Lower Upper

63 100

106 29.2 21.2 31.8





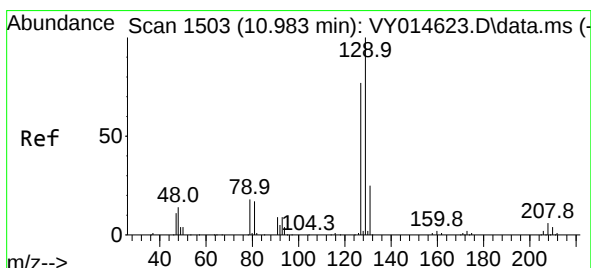
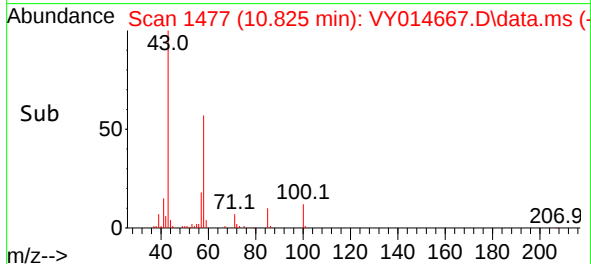
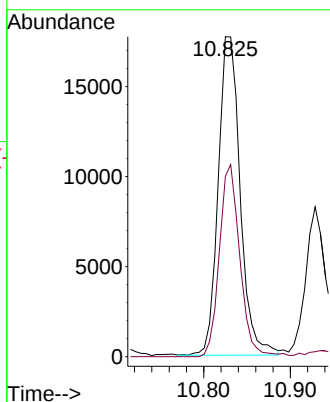
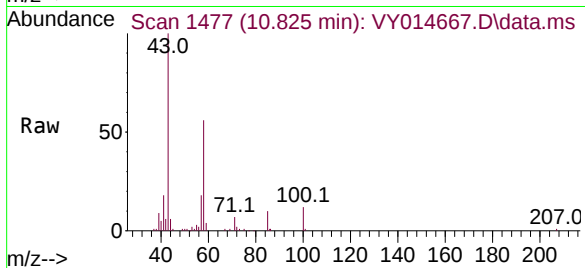
#59
2-Hexanone
Concen: 14.075 ug/l
RT: 10.825 min Scan# 1477
Delta R.T. -0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion: 43 Resp: 31154
Ion Ratio Lower Upper
43 100
58 56.2 25.1 75.3

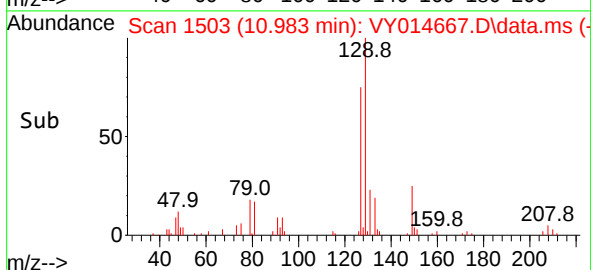
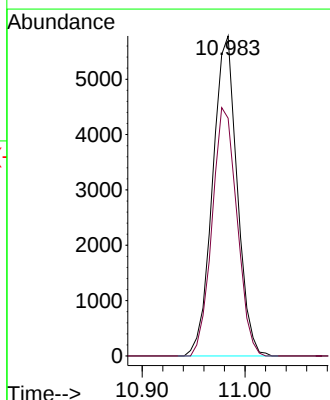
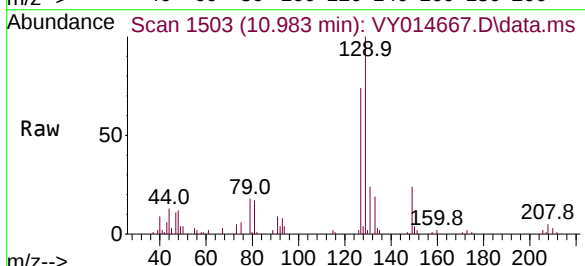
Manual Integrations
APPROVED

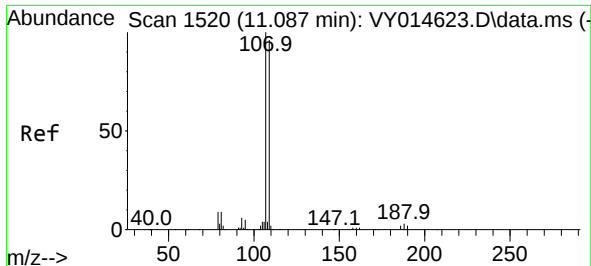
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#60
Dibromochloromethane
Concen: 2.819 ug/l
RT: 10.983 min Scan# 1503
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

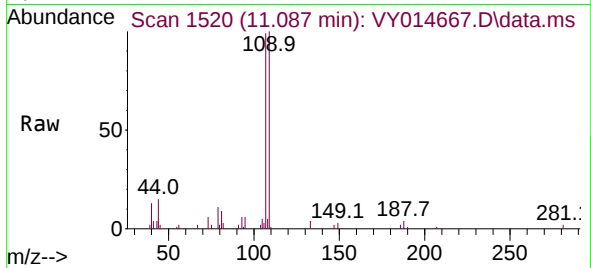
Tgt Ion:129 Resp: 9560
Ion Ratio Lower Upper
129 100
127 78.7 38.5 115.5





#61
1,2-Dibromoethane
Concen: 2.854 ug/l
RT: 11.087 min Scan# 1520
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

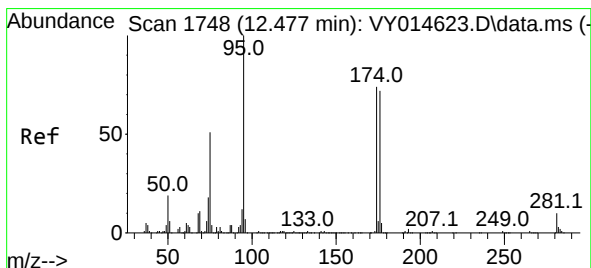
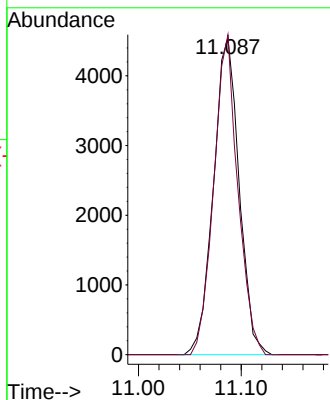
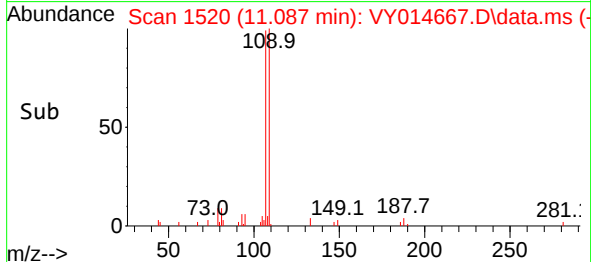
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



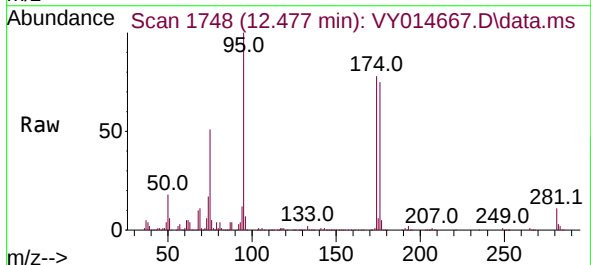
Tgt Ion:107 Resp: 787
Ion Ratio Lower Upper
107 100
109 94.6 75.6 113.4

Manual Integrations
APPROVED

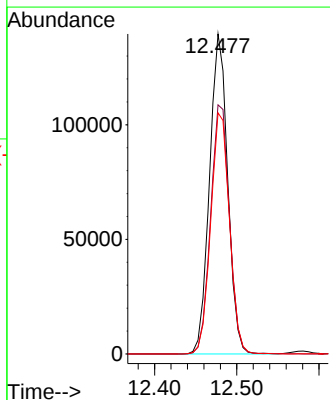
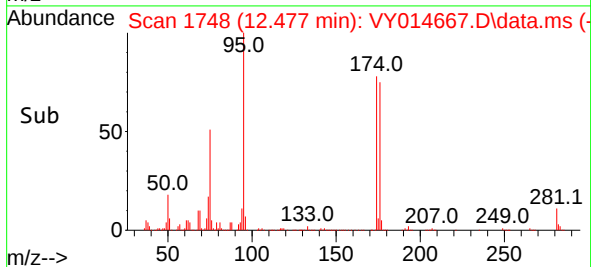
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

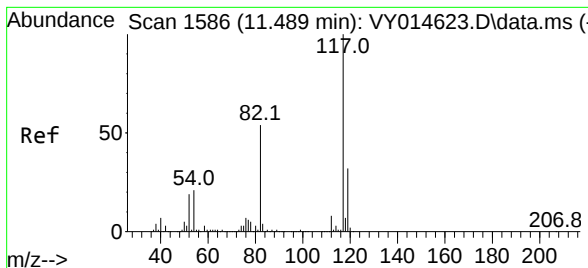


#62
4-Bromofluorobenzene
Concen: 51.505 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



Tgt Ion: 95 Resp: 214607
Ion Ratio Lower Upper
95 100
174 80.6 0.0 178.2
176 77.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

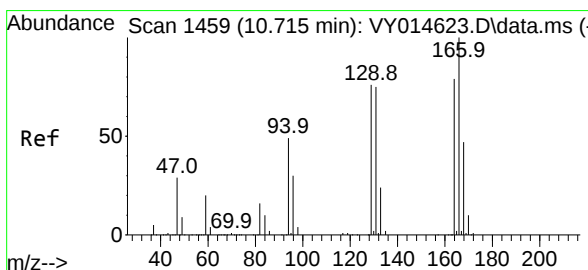
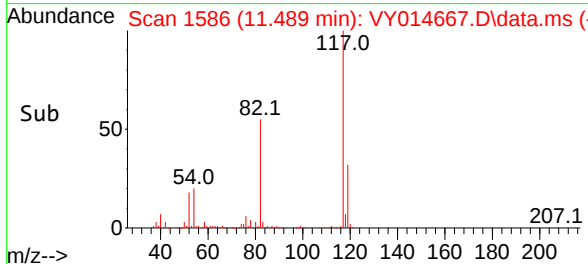
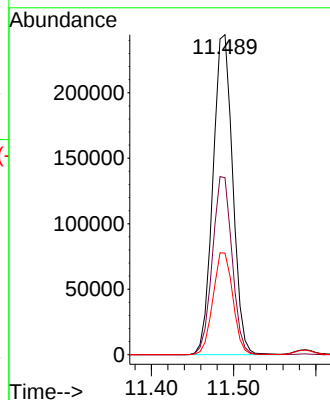
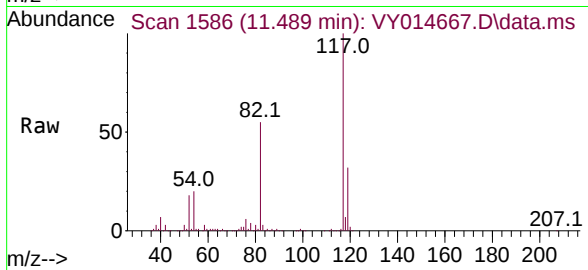
Tgt Ion:117 Resp: 408052

Ion	Ratio	Lower	Upper
117	100		
82	55.3	43.4	65.0
119	31.8	26.3	39.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#64

Tetrachloroethene

Concen: 2.900 ug/l

RT: 10.715 min Scan# 1459

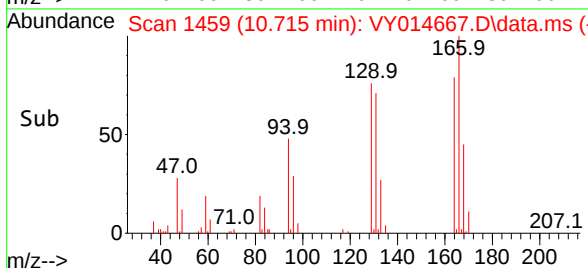
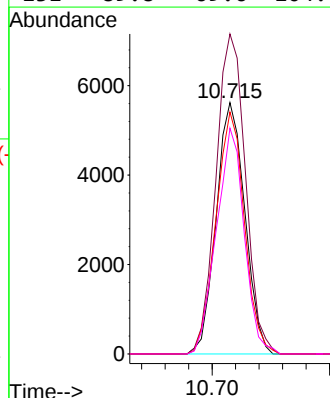
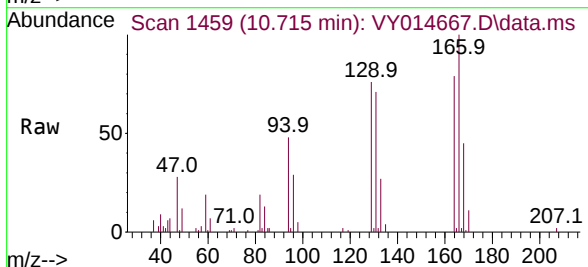
Delta R.T. 0.000 min

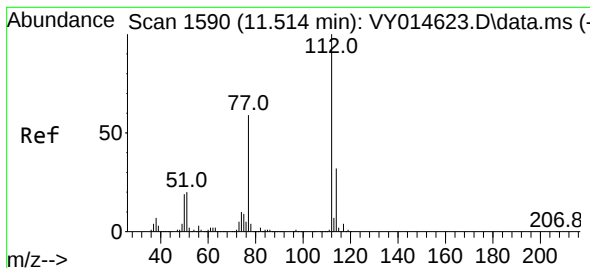
Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Tgt Ion:164 Resp: 9516

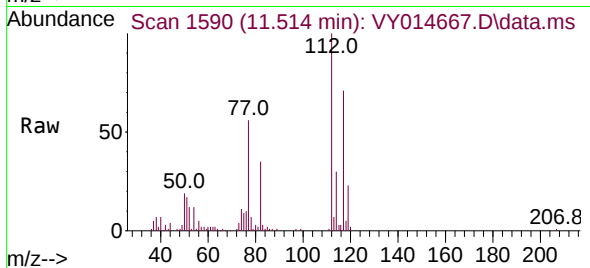
Ion	Ratio	Lower	Upper
164	100		
166	127.3	103.0	154.6
129	96.2	77.2	115.8
131	89.8	69.6	104.4





#65
Chlorobenzene
Concen: 2.837 ug/l
RT: 11.514 min Scan# 11590
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

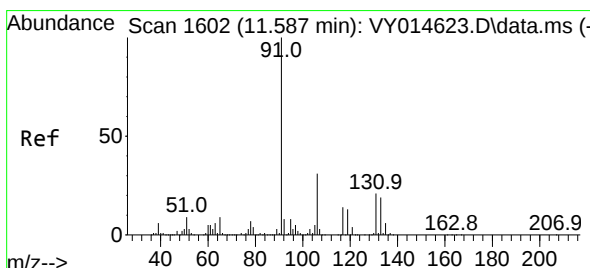
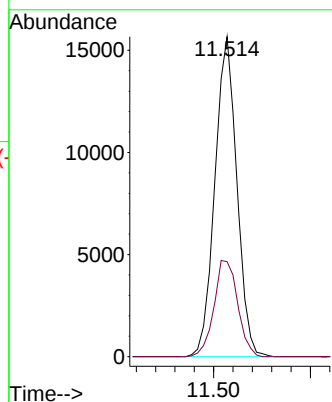
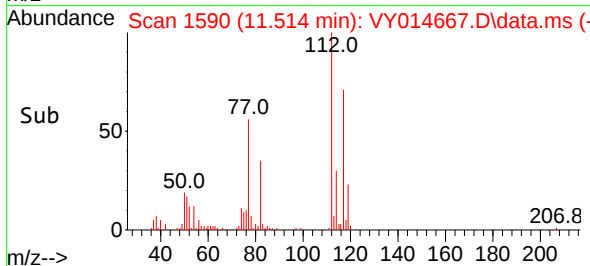
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



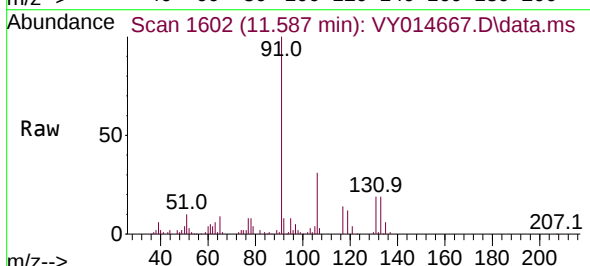
Tgt Ion:112 Resp: 2467
Ion Ratio Lower Upper
112 100
114 29.7 25.5 38.3

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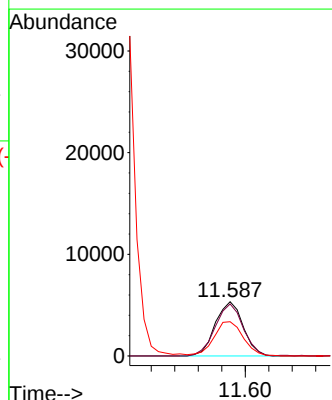
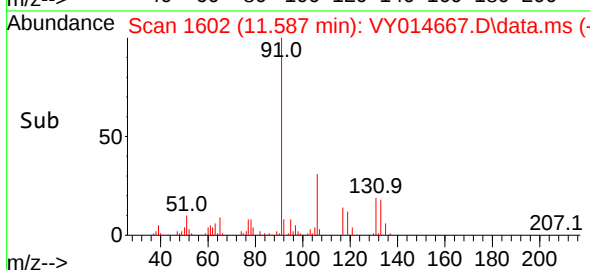
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

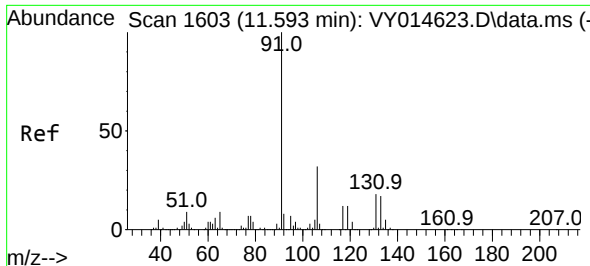


#66
1,1,1,2-Tetrachloroethane
Concen: 2.678 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



Tgt Ion:131 Resp: 8779
Ion Ratio Lower Upper
131 100
133 96.2 47.5 142.6
119 66.8 31.6 94.7





#67

Ethyl Benzene

Concen: 2.732 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. -0.006 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 91 Resp: 4289

Ion Ratio Lower Upper

91 100

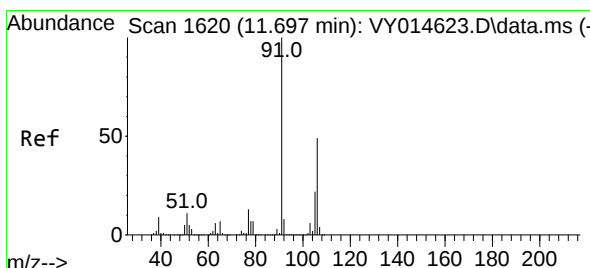
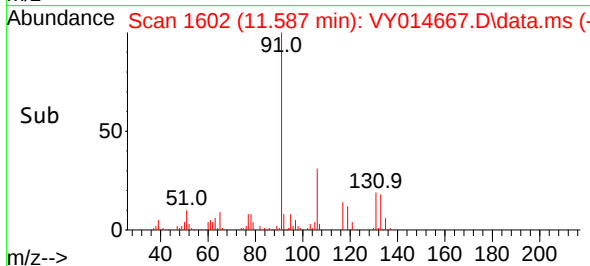
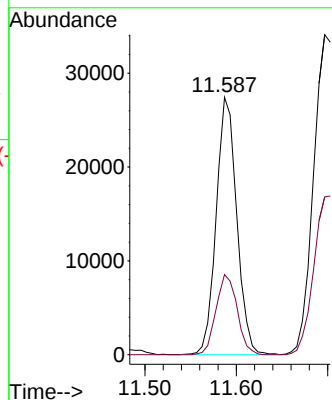
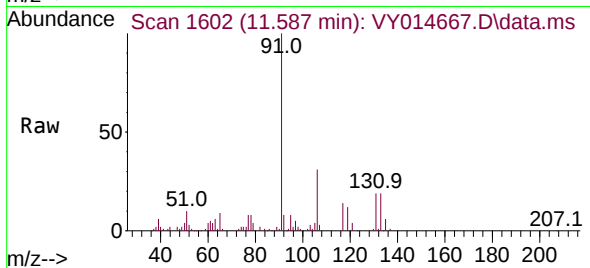
106 31.1 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#68

m/p-Xylenes

Concen: 5.567 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. 0.006 min

Lab File: VY014667.D

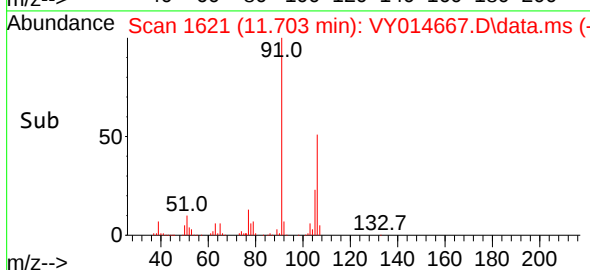
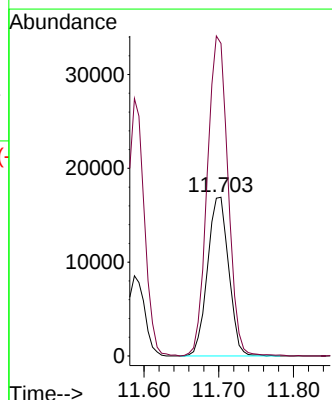
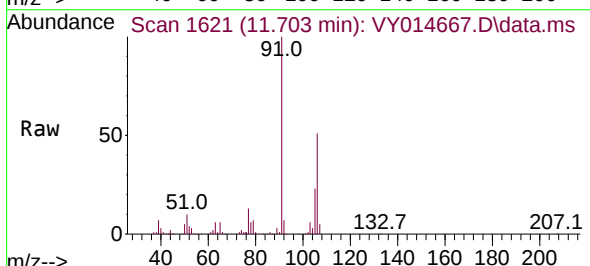
Acq: 17 Jul 2023 13:09

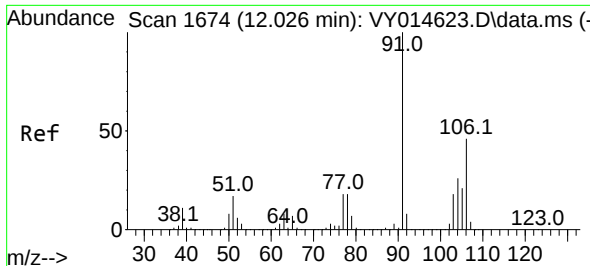
Tgt Ion:106 Resp: 33364

Ion Ratio Lower Upper

106 100

91 197.5 166.1 249.1





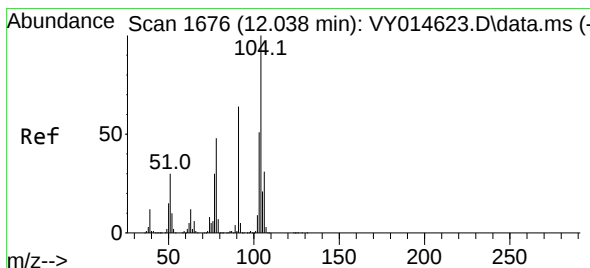
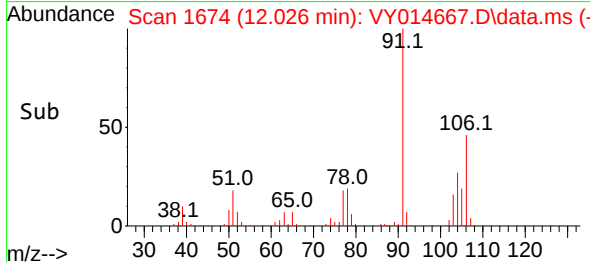
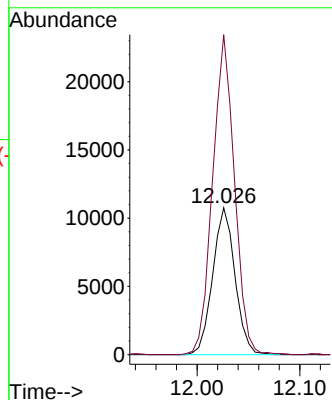
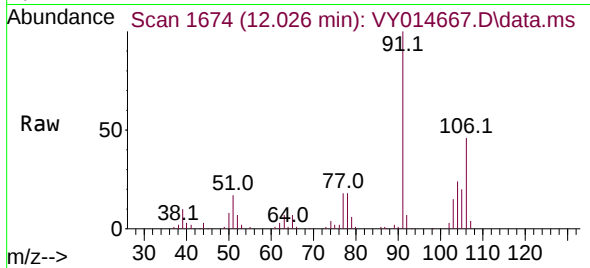
#69
o-Xylene
Concen: 2.781 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion:106 Resp: 1623
Ion Ratio Lower Upper
106 100
91 213.2 108.1 324.3

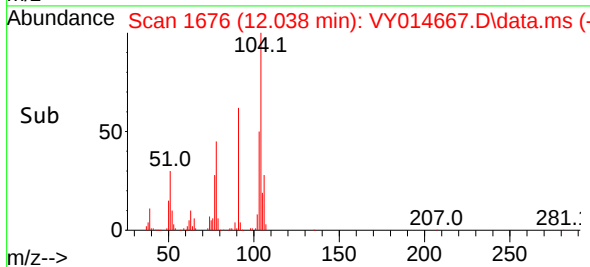
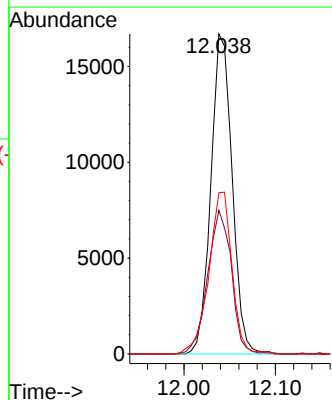
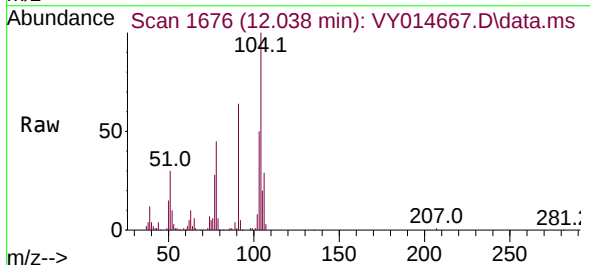
Manual Integrations
APPROVED

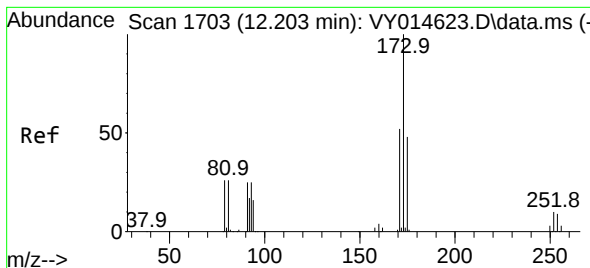
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#70
Styrene
Concen: 2.746 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion:104 Resp: 27016
Ion Ratio Lower Upper
104 100
78 50.1 41.5 62.3
103 55.0 44.6 67.0





#71

Bromoform

Concen: 2.796 ug/l

RT: 12.203 min Scan# 1703

Delta R.T. -0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

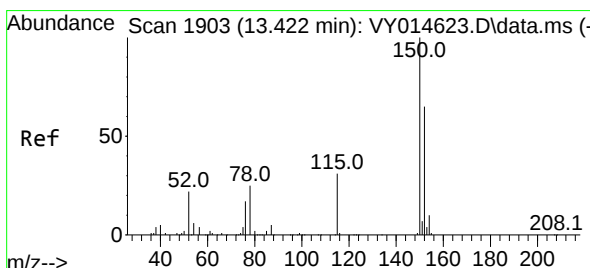
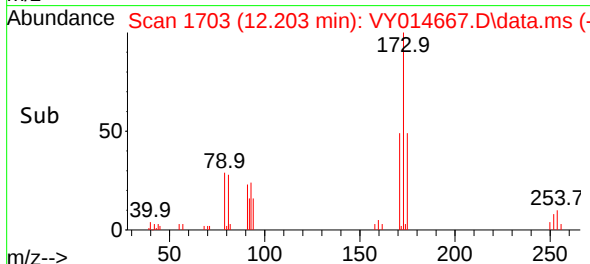
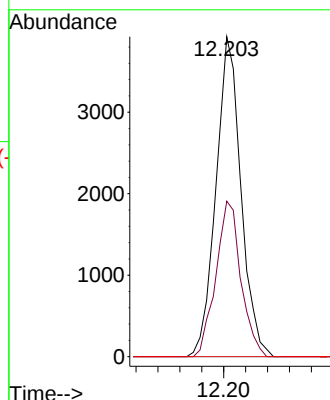
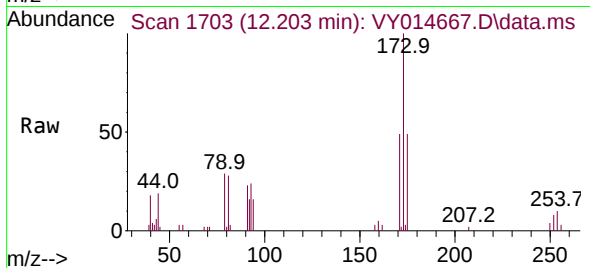
Tgt Ion:173	Resp:	621
Ion Ratio	Lower	Upper
173	100	
175	48.6	24.6 73.8
254	0.0	0.2 0.2

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

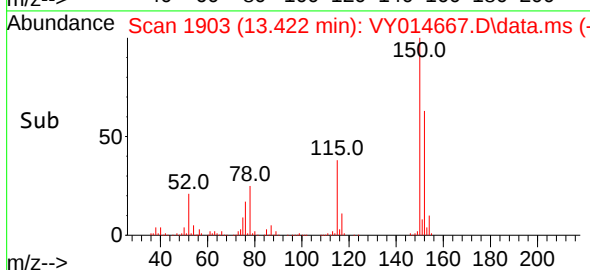
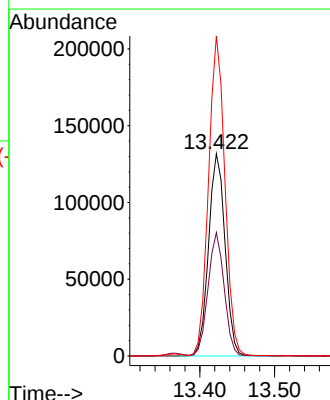
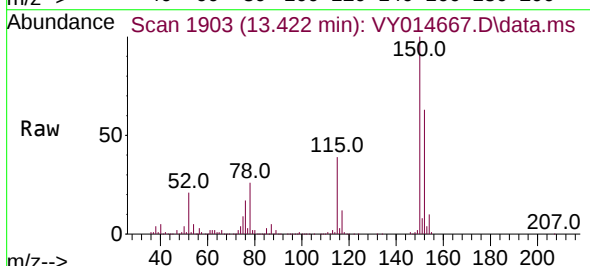
RT: 13.422 min Scan# 1903

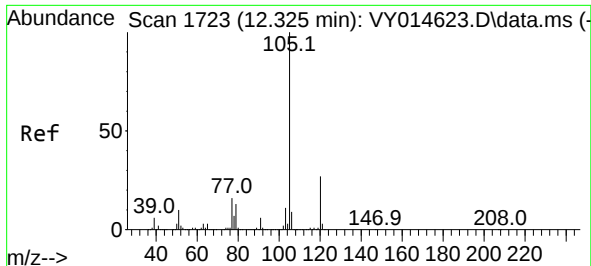
Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Tgt Ion:152	Resp:	202070
Ion Ratio	Lower	Upper
152	100	
115	59.7	28.8 86.5
150	156.7	0.0 348.8





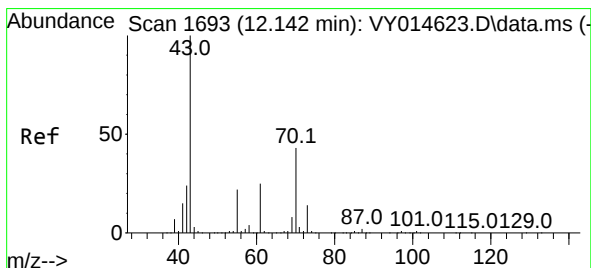
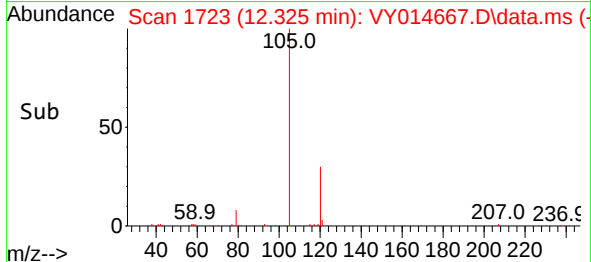
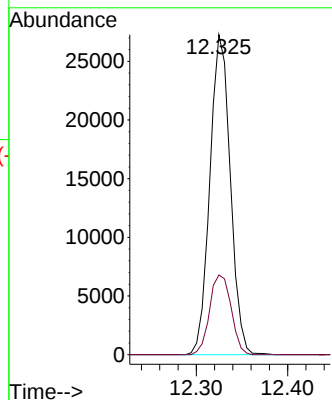
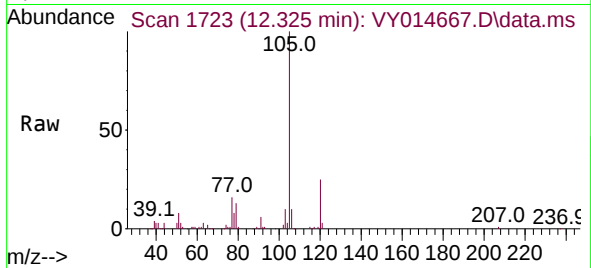
#73
Isopropylbenzene
Concen: 2.672 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion: 105 Resp: 4227
Ion Ratio Lower Upper
105 100
120 26.2 13.3 39.9

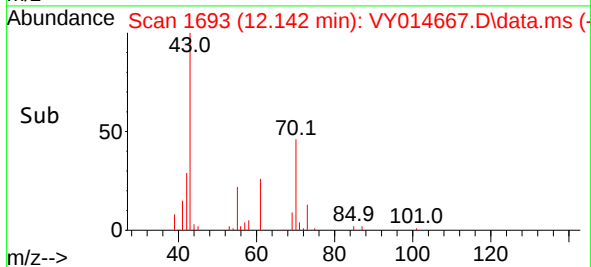
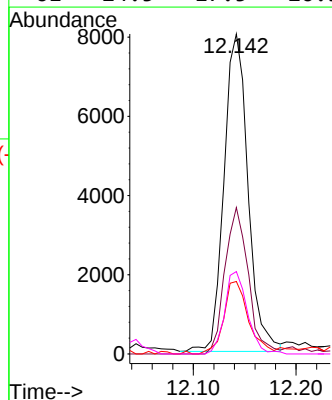
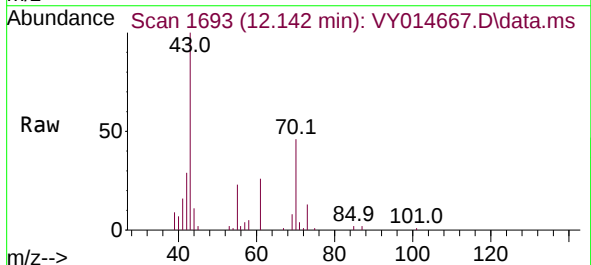
Manual Integrations
APPROVED

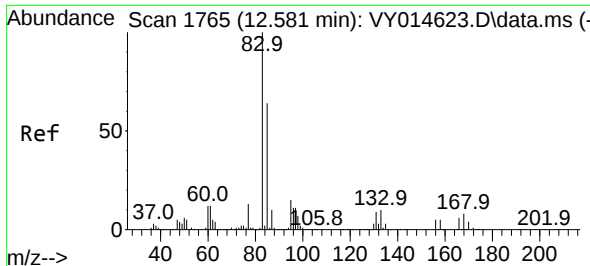
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#74
N-ethyl acetate
Concen: 2.451 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

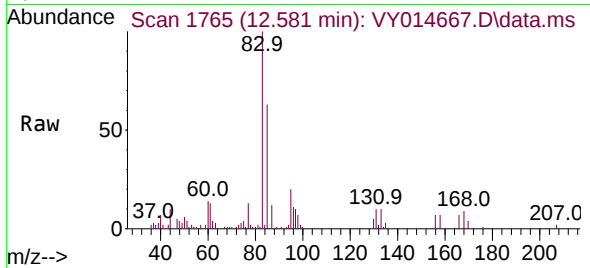
Tgt Ion: 43 Resp: 12990
Ion Ratio Lower Upper
43 100
70 44.7 29.7 44.5#
55 23.5 18.3 27.5
61 24.5 17.5 26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 2.831 ug/l
RT: 12.581 min Scan# 1765
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

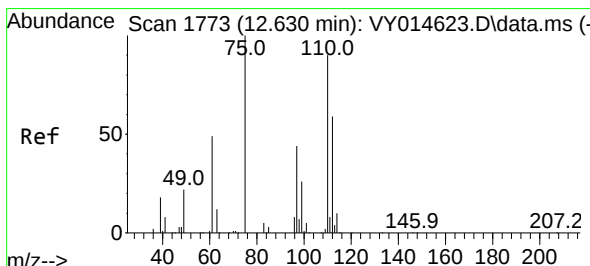
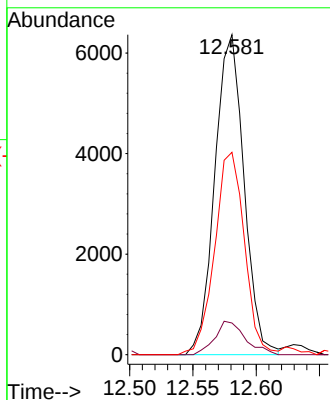
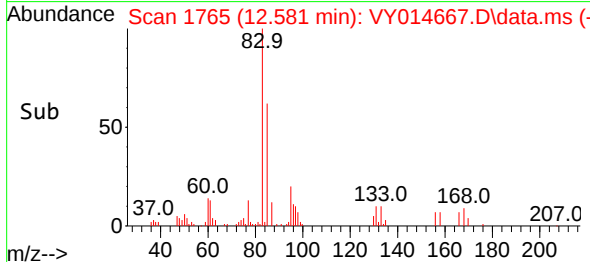
Instrument : MSVOA_Y
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion: 83 Resp: 10214
Ion Ratio Lower Upper
83 100
131 10.8 5.4 16.2
85 64.5 31.8 95.4

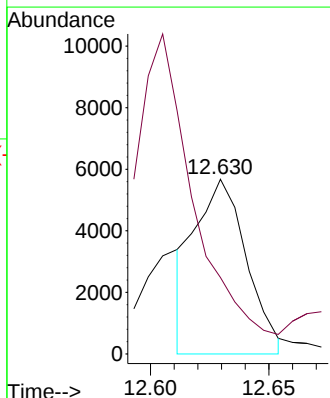
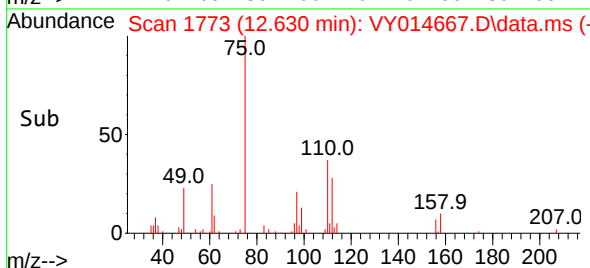
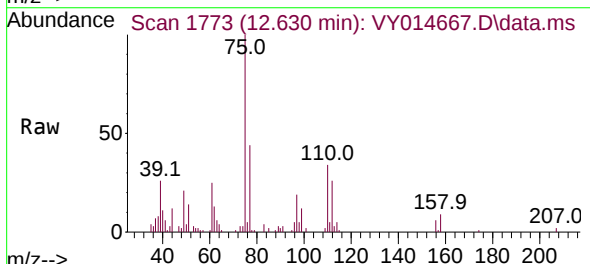
Manual Integrations
APPROVED

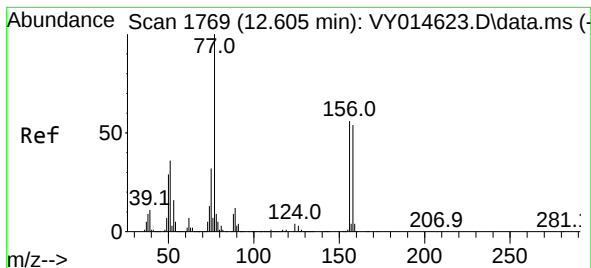
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#76
1,2,3-Trichloropropane
Concen: 3.372 ug/l m
RT: 12.630 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion: 75 Resp: 8606
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 2.641 ug/l

RT: 12.605 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

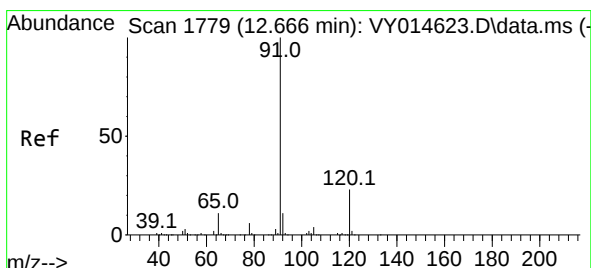
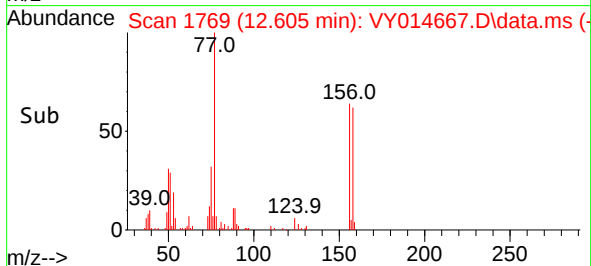
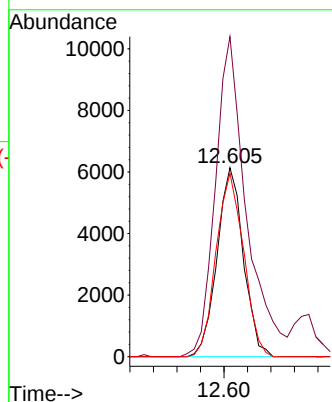
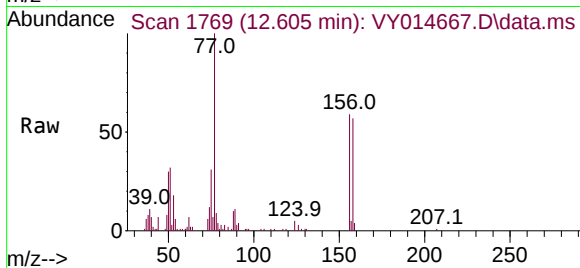
Tgt Ion:	156	Resp:	9540
Ion Ratio	Lower	Upper	
156	100		
77	199.6	92.8	278.6
158	101.5	48.4	145.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#78

n-propylbenzene

Concen: 2.443 ug/l

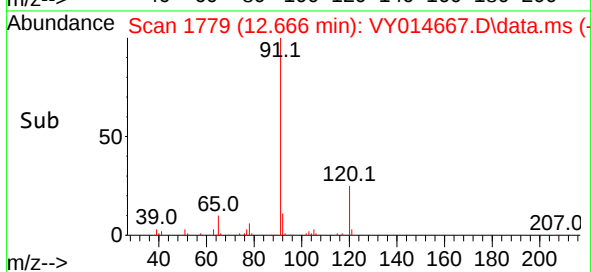
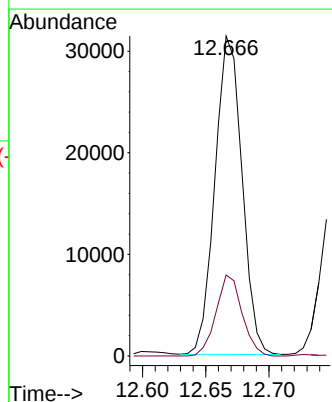
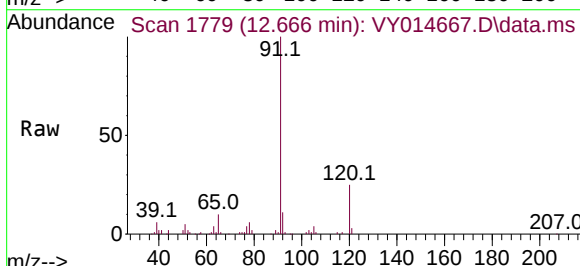
RT: 12.666 min Scan# 1779

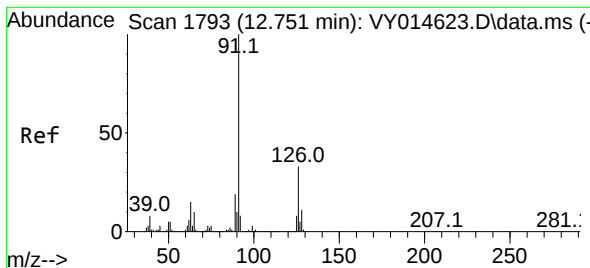
Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Tgt Ion:	91	Resp:	46575
Ion Ratio	Lower	Upper	
91	100		
120	24.4	11.5	34.4





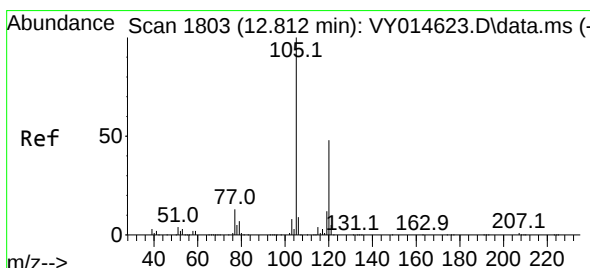
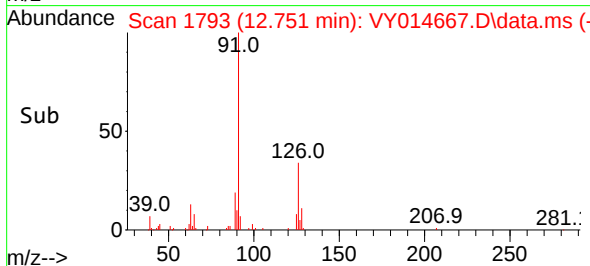
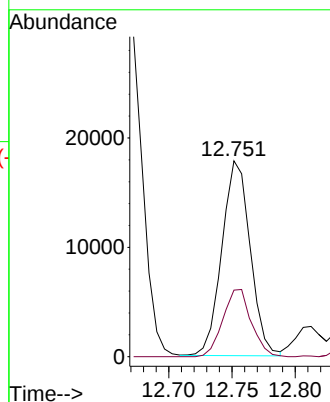
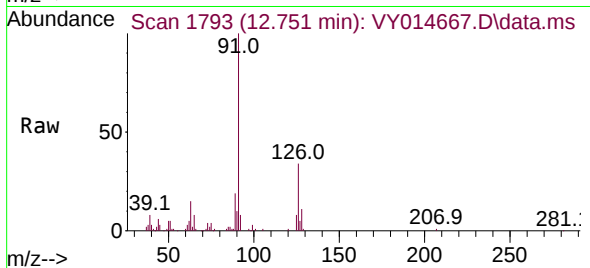
#79
2-Chlorotoluene
Concen: 2.532 ug/l
RT: 12.751 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion: 91 Resp: 27808
Ion Ratio Lower Upper
91 100
126 34.5 17.3 51.7

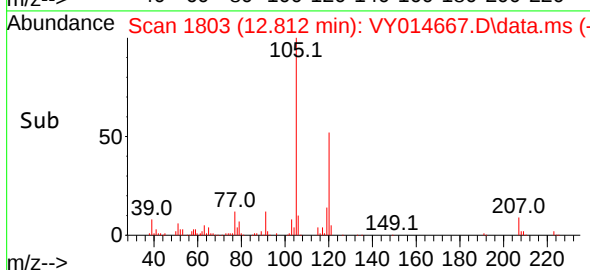
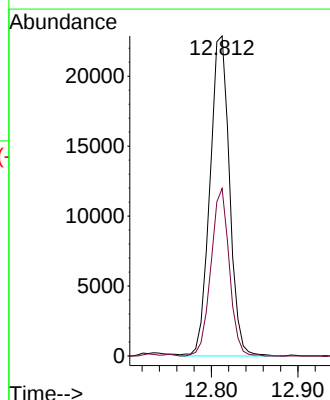
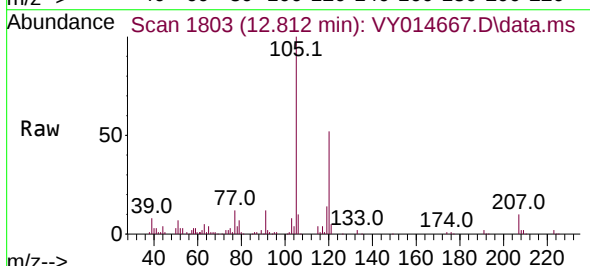
Manual Integrations
APPROVED

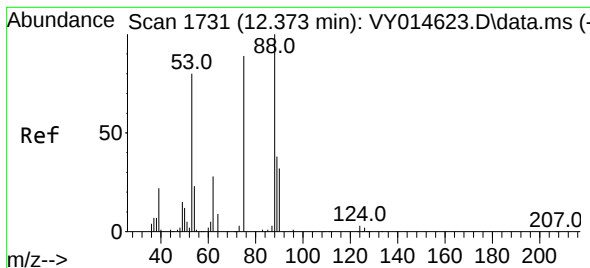
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#80
1,3,5-Trimethylbenzene
Concen: 2.717 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

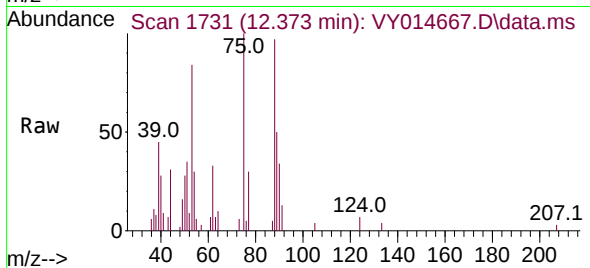
Tgt Ion:105 Resp: 35897
Ion Ratio Lower Upper
105 100
120 49.0 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 2.594 ug/l
RT: 12.373 min Scan# 1731
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

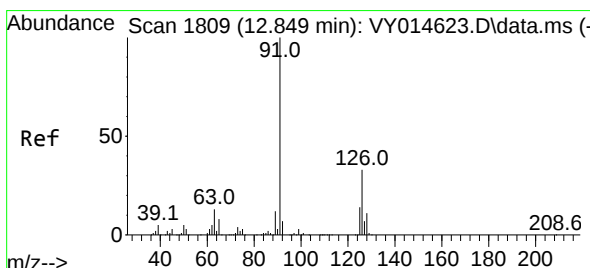
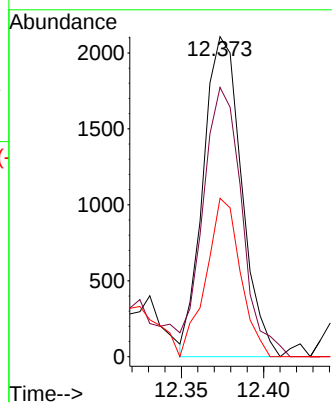
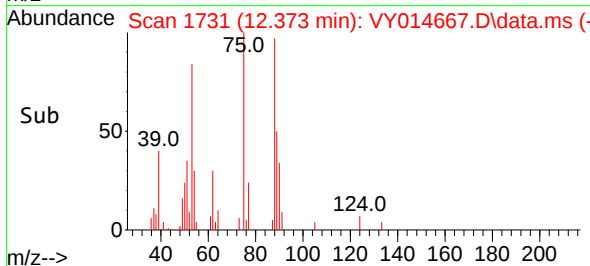
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



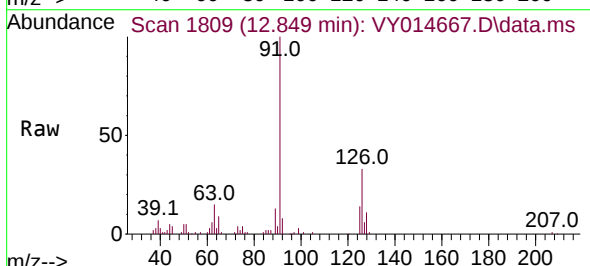
Tgt Ion: 75 Resp: 3419
Ion Ratio Lower Upper
75 100
53 84.8 77.8 116.8
89 44.3 37.4 56.0

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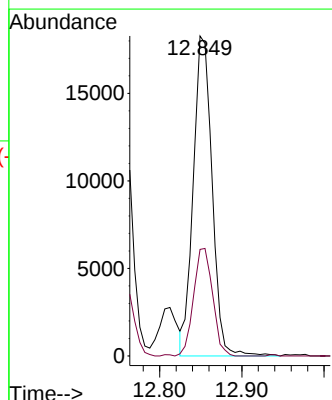
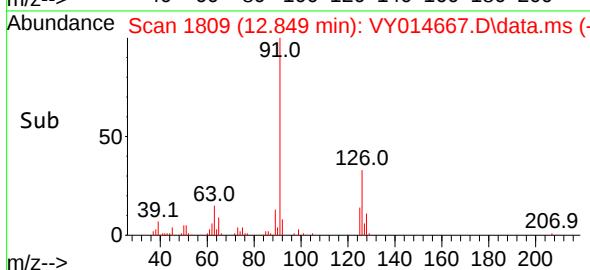
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

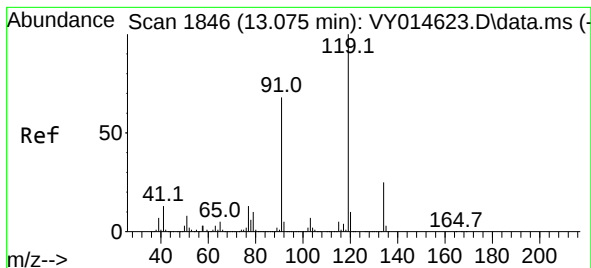


#82
4-Chlorotoluene
Concen: 2.573 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



Tgt Ion: 91 Resp: 29105
Ion Ratio Lower Upper
91 100
126 34.1 17.2 51.6





#83

tert-Butylbenzene

Concen: 2.563 ug/l

RT: 13.068 min Scan# 1845

Delta R.T. -0.007 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

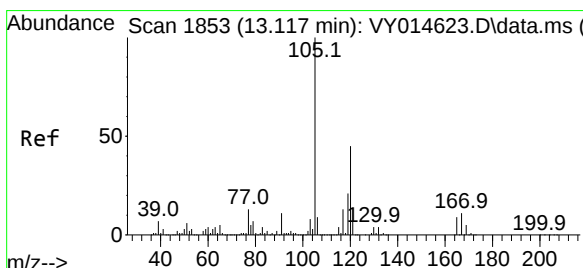
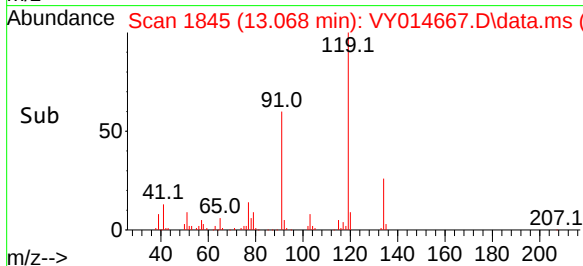
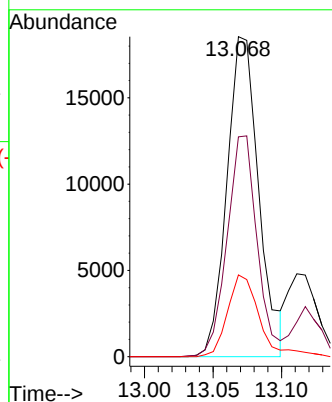
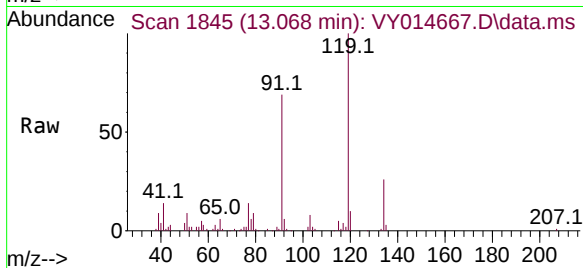
Tgt Ion:	119	Resp:	30039
Ion Ratio	Lower	Upper	
119	100		
91	65.3	32.9	98.6
134	25.6	13.0	38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#84

1,2,4-Trimethylbenzene

Concen: 2.742 ug/l

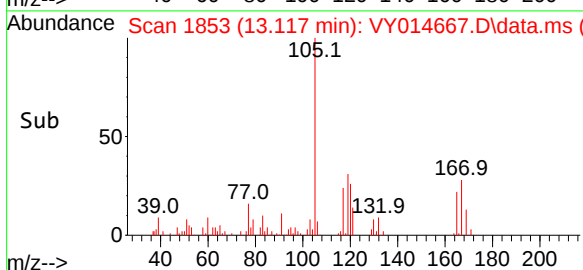
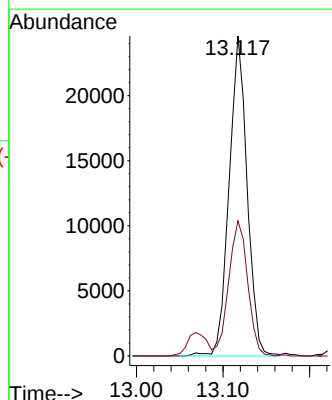
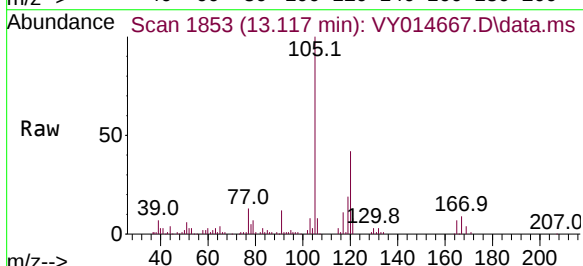
RT: 13.117 min Scan# 1853

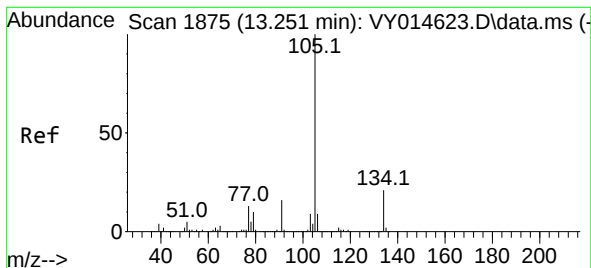
Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Tgt Ion:	105	Resp:	35553
Ion Ratio	Lower	Upper	
105	100		
120	44.5	22.2	66.6





#85

sec-Butylbenzene

Concen: 2.542 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion:105 Resp: 4371

Ion Ratio Lower Upper

105 100

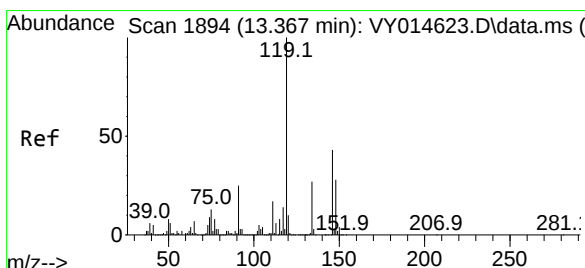
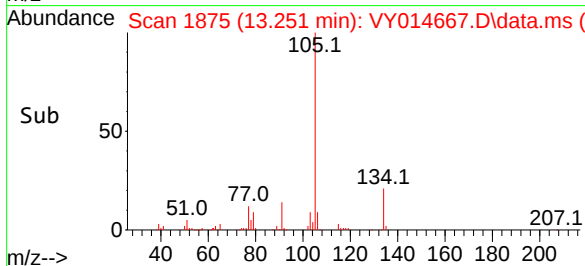
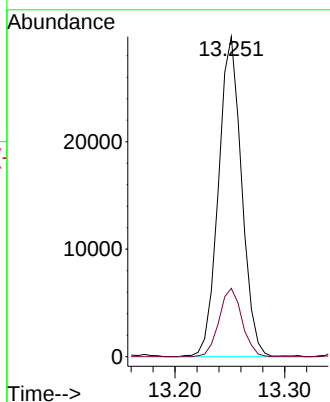
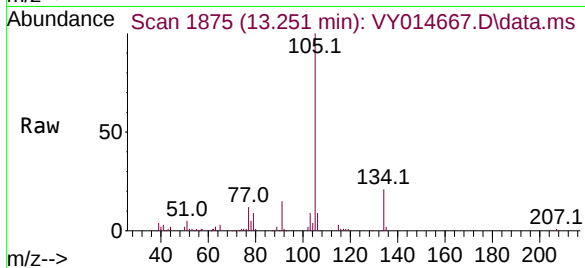
134 21.1 10.2 30.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/18/2023

Supervised By :Mahesh Dadoda 07/18/2023



#86

p-Isopropyltoluene

Concen: 2.587 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

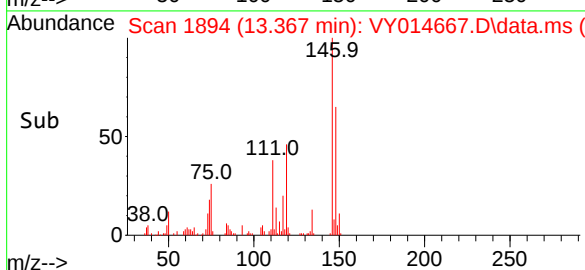
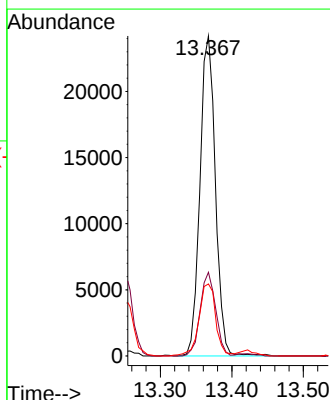
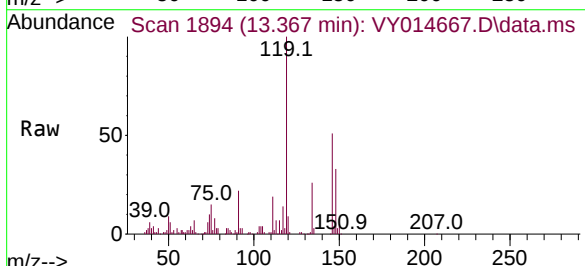
Tgt Ion:119 Resp: 36313

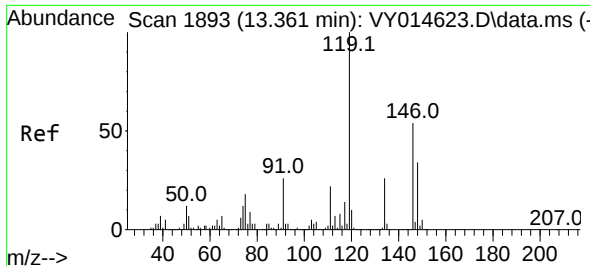
Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.8

91 24.5 12.4 37.4





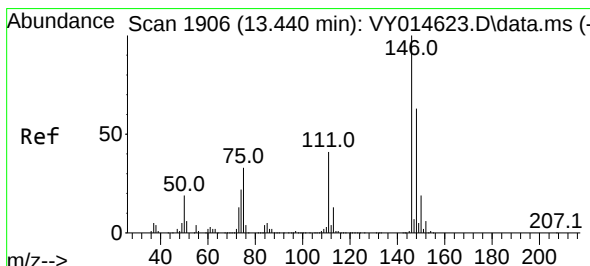
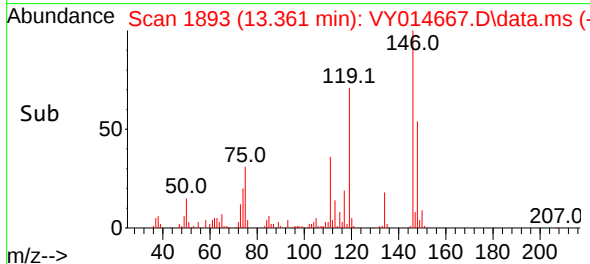
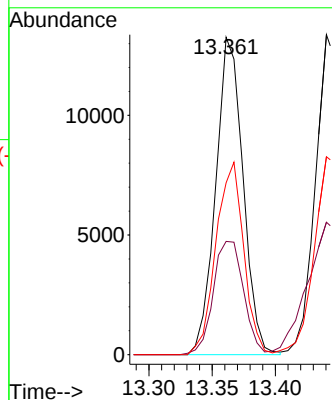
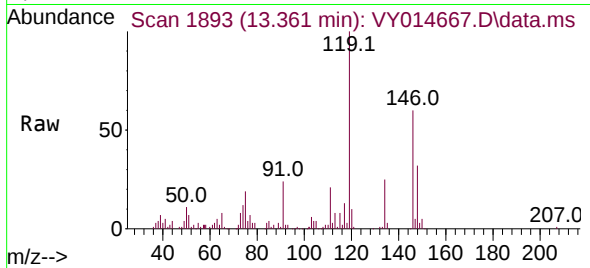
#87
1,3-Dichlorobenzene
Concen: 2.838 ug/l
RT: 13.361 min Scan# 1893
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion:146 Resp: 19948
Ion Ratio Lower Upper
146 100
111 39.5 19.4 58.2
148 61.6 31.9 95.5

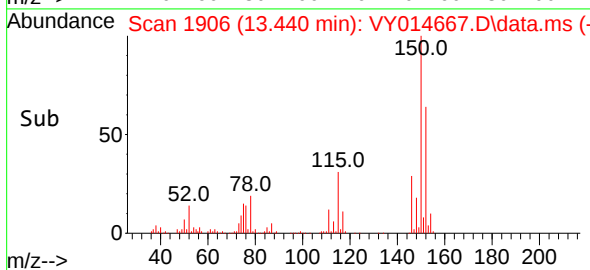
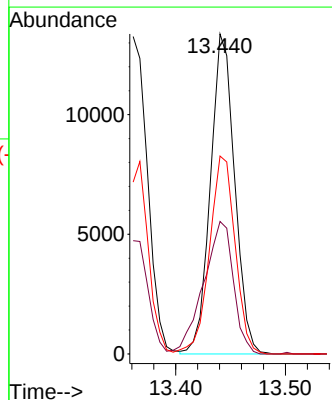
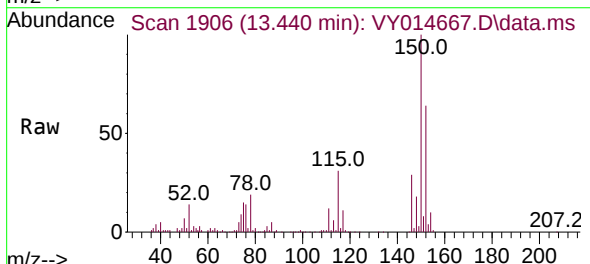
Manual Integrations
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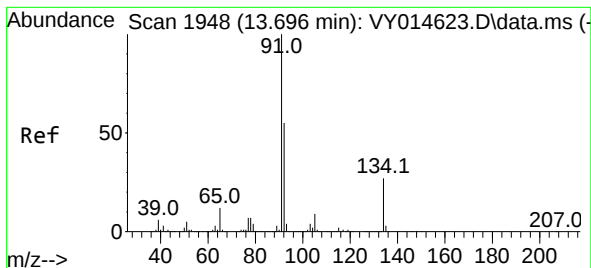
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#88
1,4-Dichlorobenzene
Concen: 2.917 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion:146 Resp: 20544
Ion Ratio Lower Upper
146 100
111 51.2 18.9 56.7
148 65.7 32.1 96.5





#89

n-Butylbenzene

Concen: 2.468 ug/l

RT: 13.690 min Scan# 1948

Delta R.T. -0.006 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

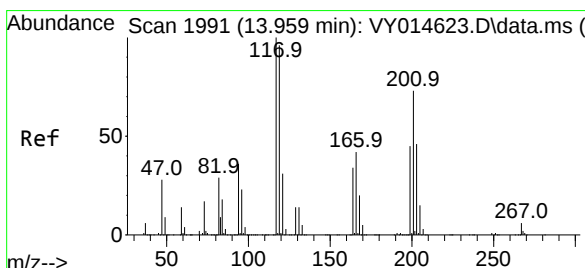
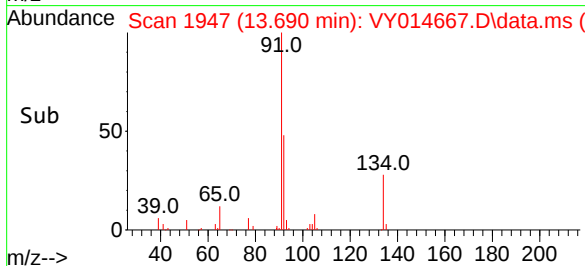
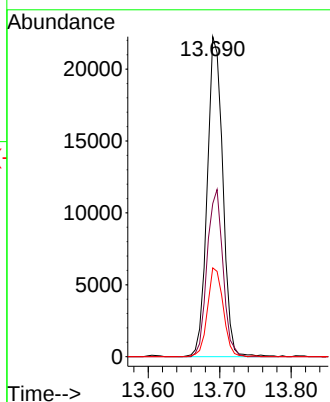
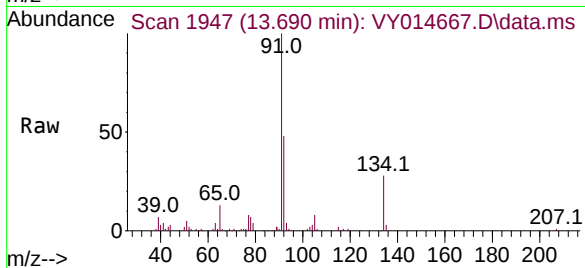
ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 91	Resp: 33700
Ion Ratio	Lower Upper
91	100
92	52.9 25.4 76.0
134	27.9 12.6 37.6

Manual Integrations
APPROVED

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



#90

Hexachloroethane

Concen: 2.586 ug/l

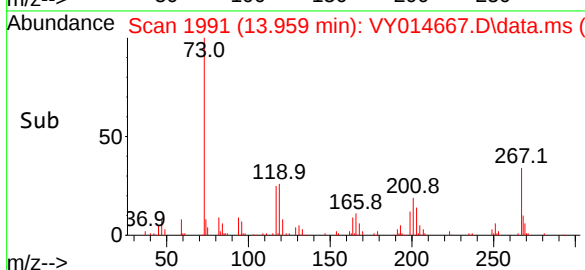
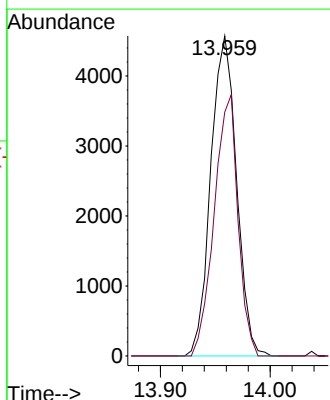
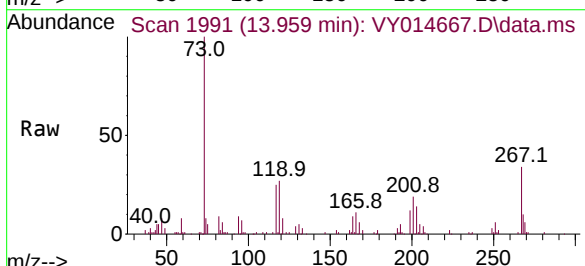
RT: 13.959 min Scan# 1991

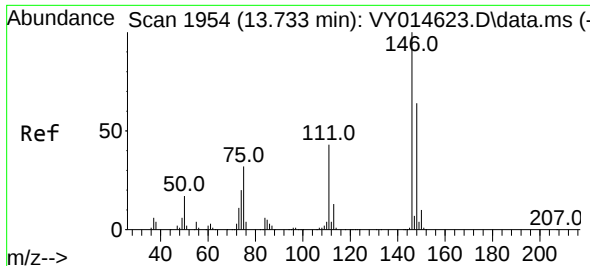
Delta R.T. -0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Tgt Ion: 117	Resp: 7456
Ion Ratio	Lower Upper
117	100
201	75.4 41.6 124.8





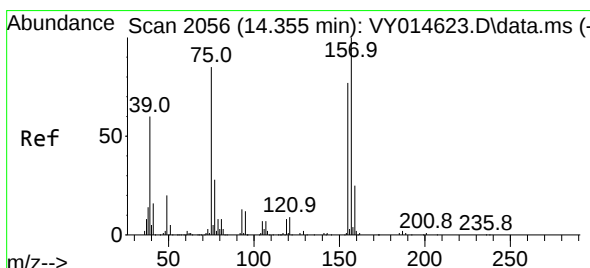
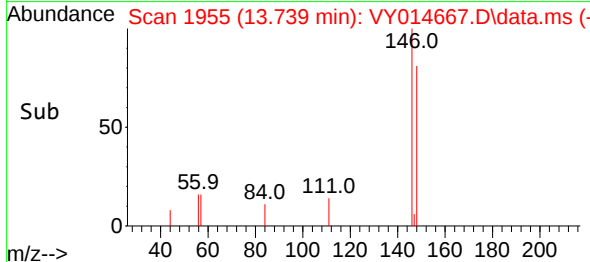
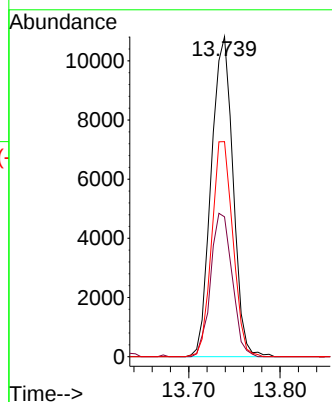
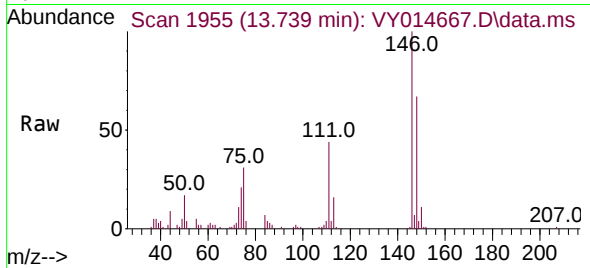
#91
1,2-Dichlorobenzene
Concen: 2.779 ug/l
RT: 13.739 min Scan# 1954
Delta R.T. 0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

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

Tgt Ion:146 Resp: 17890
Ion Ratio Lower Upper
146 100
111 44.0 19.7 59.0
148 65.3 32.0 96.2

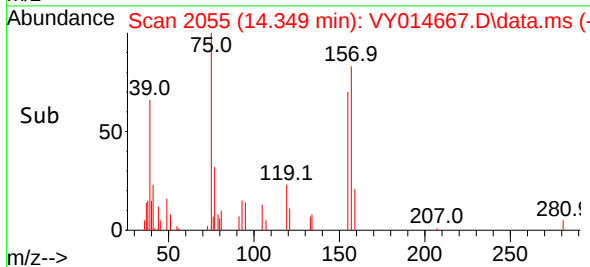
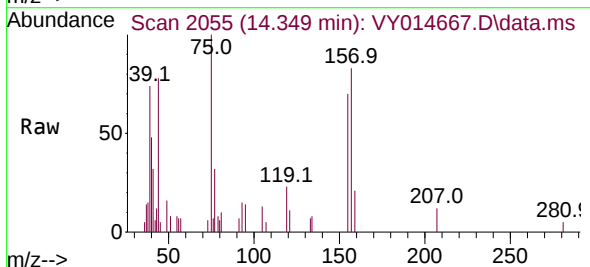
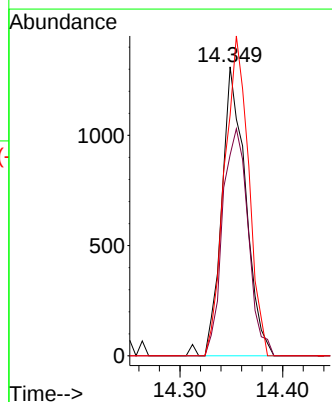
Manual Integrations
APPROVED

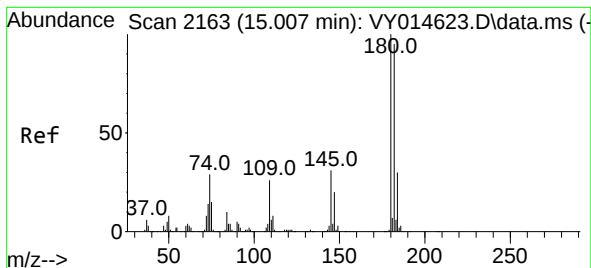
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#92
1,2-Dibromo-3-Chloropropane
Concen: 3.062 ug/l
RT: 14.349 min Scan# 2055
Delta R.T. -0.006 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

Tgt Ion: 75 Resp: 2113
Ion Ratio Lower Upper
75 100
155 84.0 41.5 124.6
157 111.4 51.8 155.5





#93

1,2,4-Trichlorobenzene

Concen: 2.889 ug/l

RT: 15.007 min Scan# 2163

Delta R.T. 0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT3-2023

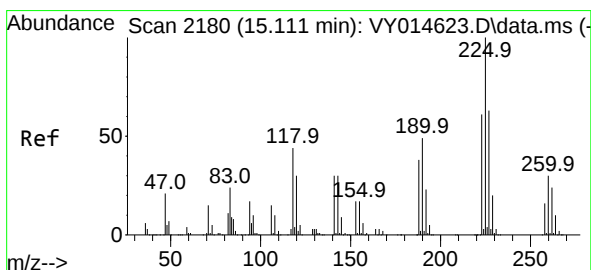
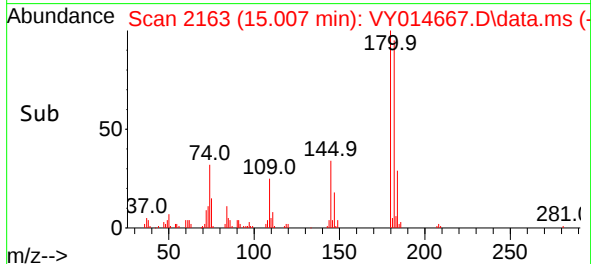
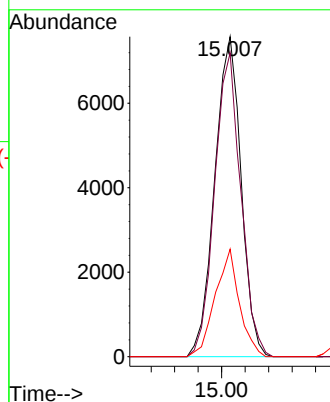
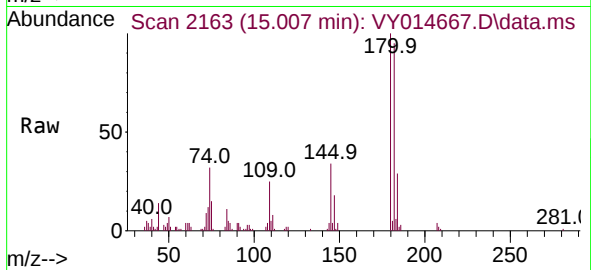
Tgt Ion:180	Resp:	11810
Ion Ratio	Lower	Upper
180	100	
182	94.2	47.0 141.2
145	30.9	14.5 43.5

Manual Integrations

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Supervised By :Mahesh Dadoda 07/18/2023



#94

Hexachlorobutadiene

Concen: 2.723 ug/l

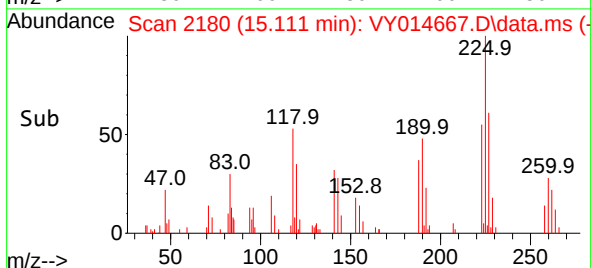
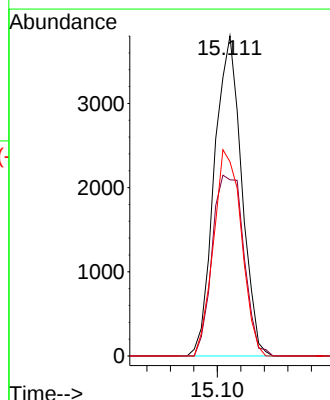
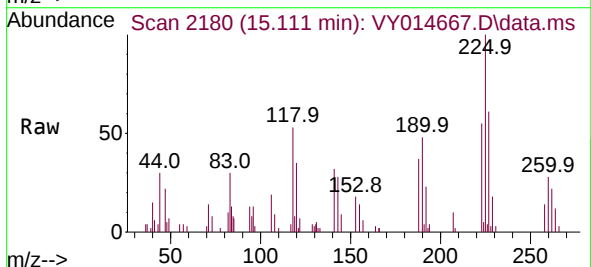
RT: 15.111 min Scan# 2180

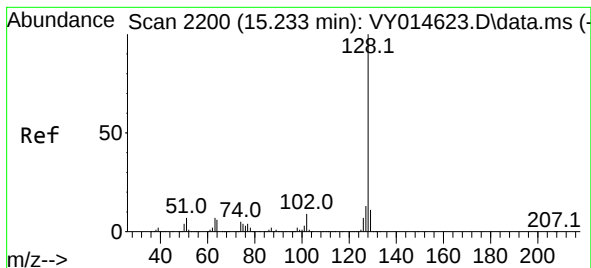
Delta R.T. -0.000 min

Lab File: VY014667.D

Acq: 17 Jul 2023 13:09

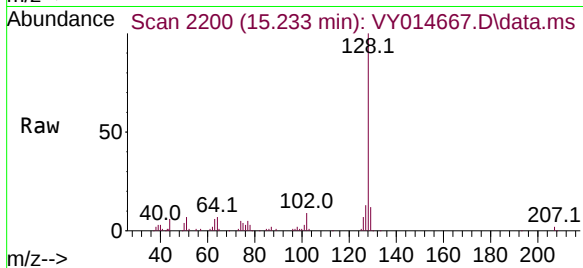
Tgt Ion:225	Resp:	6117
Ion Ratio	Lower	Upper
225	100	
223	65.3	31.9 95.9
227	66.0	33.0 98.9





#95
Naphthalene
Concen: 3.071 ug/l
RT: 15.233 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09

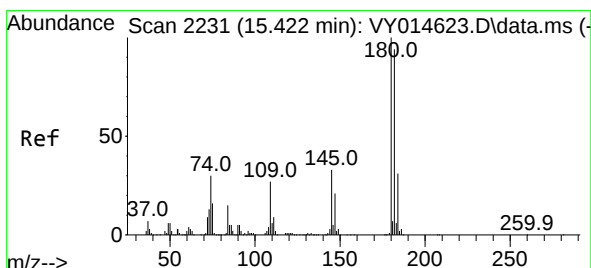
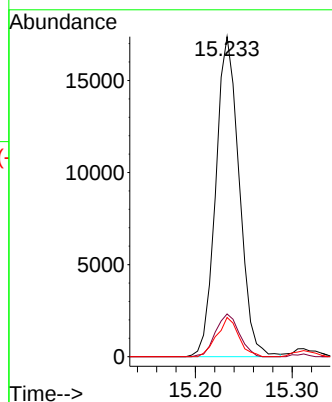
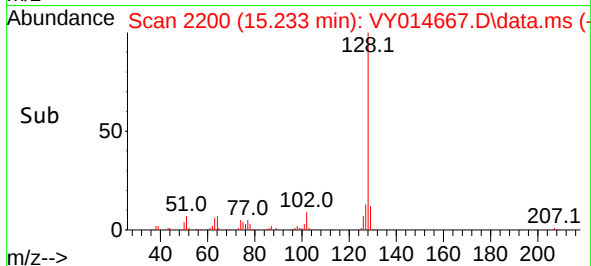
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT3-2023



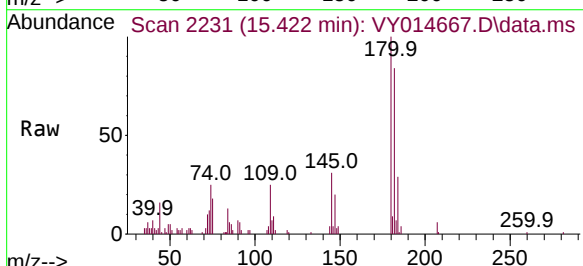
Tgt Ion:128 Resp: 2924
Ion Ratio Lower Upper
128 100
127 13.5 10.8 16.2
129 11.4 8.6 13.0

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



#96
1,2,3-Trichlorobenzene
Concen: 3.010 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014667.D
Acq: 17 Jul 2023 13:09



Tgt Ion:180 Resp: 10937
Ion Ratio Lower Upper
180 100
182 90.2 47.3 141.8
145 33.4 15.4 46.2

