

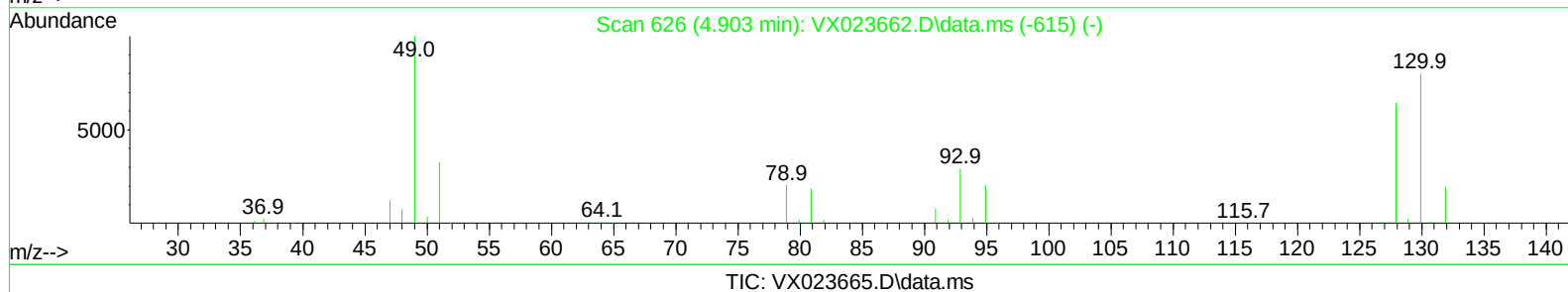
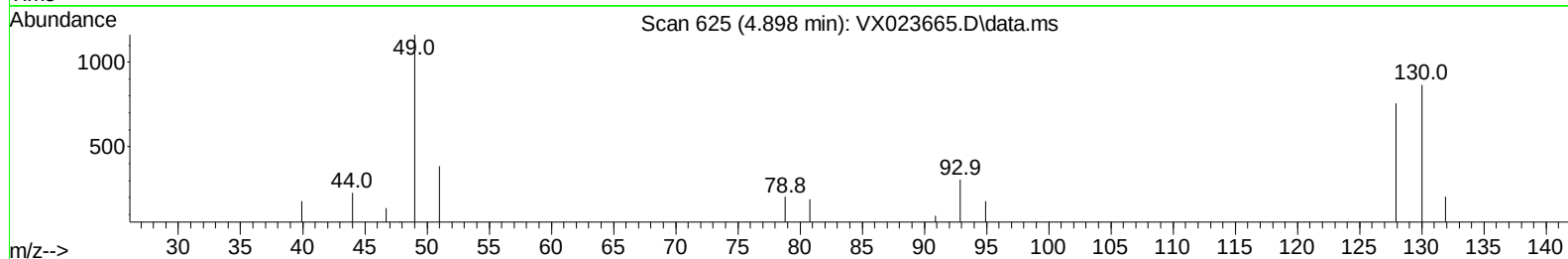
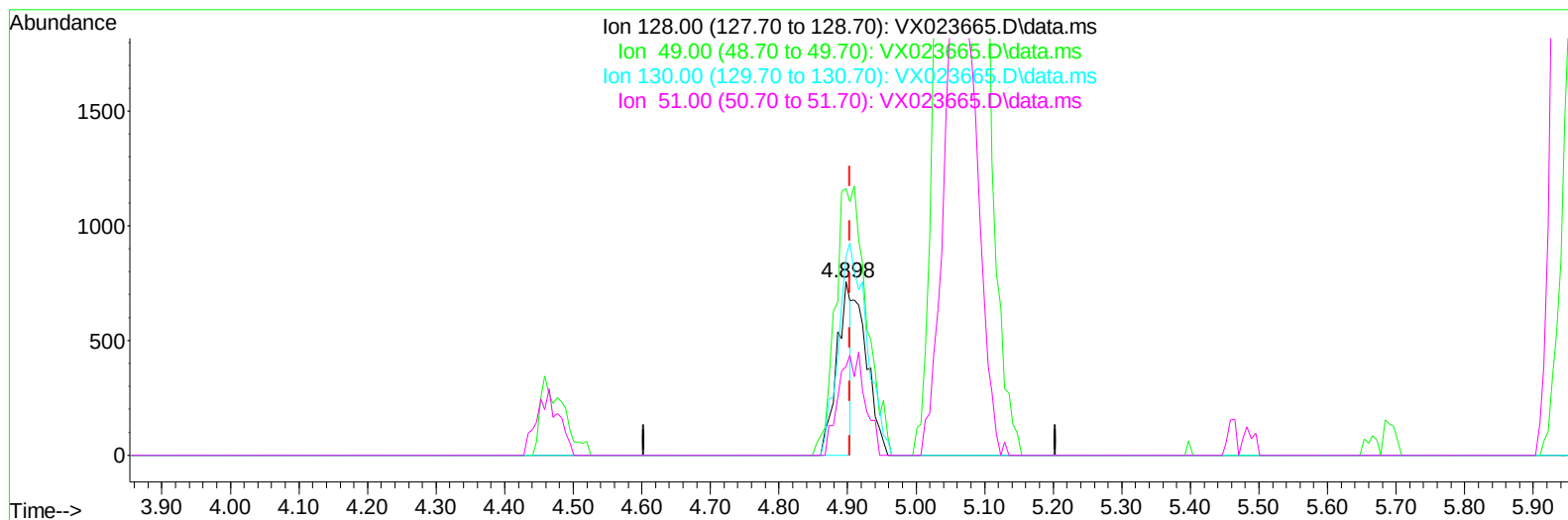
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081221\
Data File : VX023665.D
Acq On : 12 Aug 2021 11:20
Operator : JC/MD
Sample : M3263-04 2.5PPB MDL
Misc : 5.0g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MDL-SOIL-QT4-2021-08

Manual Integrations
APPROVED

MMDadoda
8/13/2021 3:43:54 PM

Quant Time: Aug 13 01:01:44 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXMLM081121WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 13 01:00:38 2021
Response via : Initial Calibration



(23) Bromochloromethane (T)

4.898min (-0.006) 1.04 ug/L

response 1087

Ion	Exp%	Act%
128.00	100.00	100.00
49.00	153.60	153.70
130.00	130.20	114.68
51.00	50.40	51.19

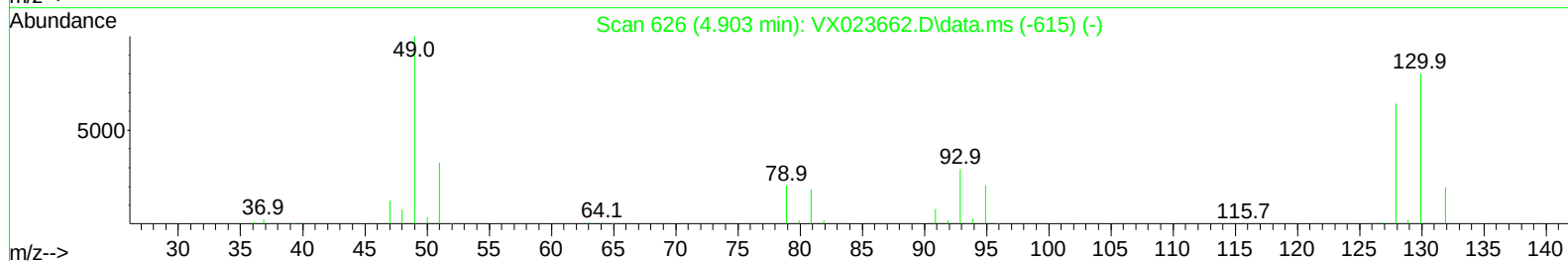
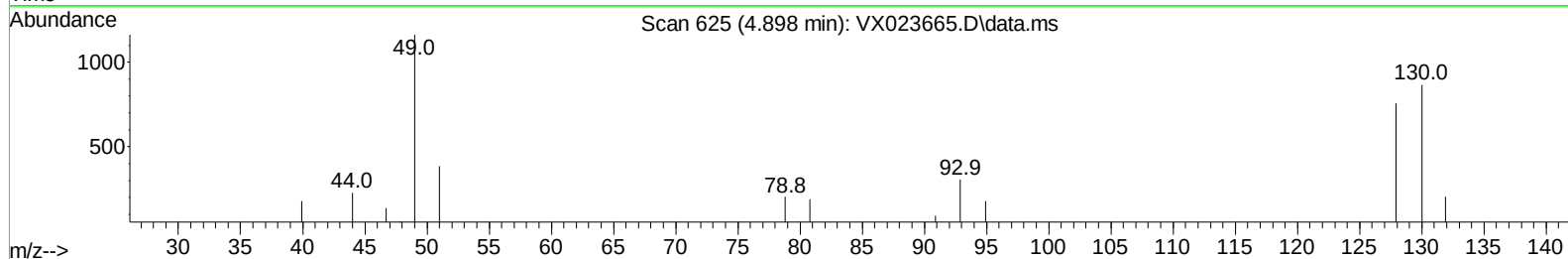
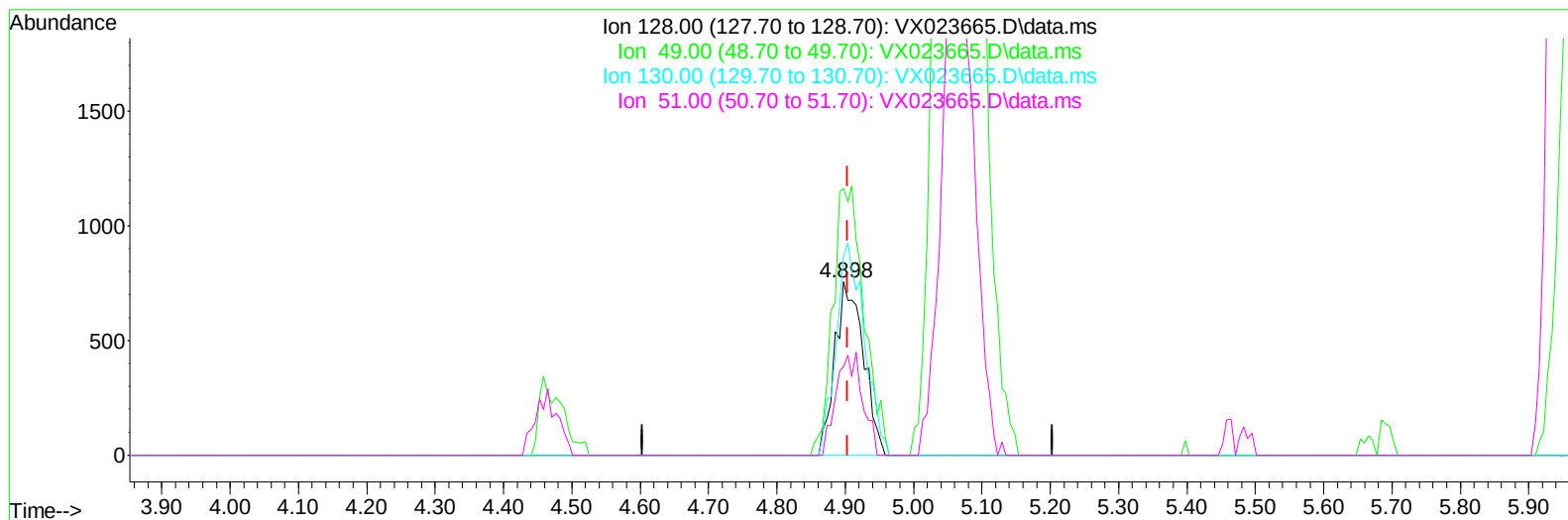
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Quant Title : VOC Analysis
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TIC: VX023665.D\data.ms

(23) Bromochloromethane (T)

4.898min (-0.006) 2.09 ug/L m

response 2184

Ion	Exp%	Act%
128.00	100.00	100.00
49.00	153.60	153.70
130.00	130.20	114.68
51.00	50.40	51.19

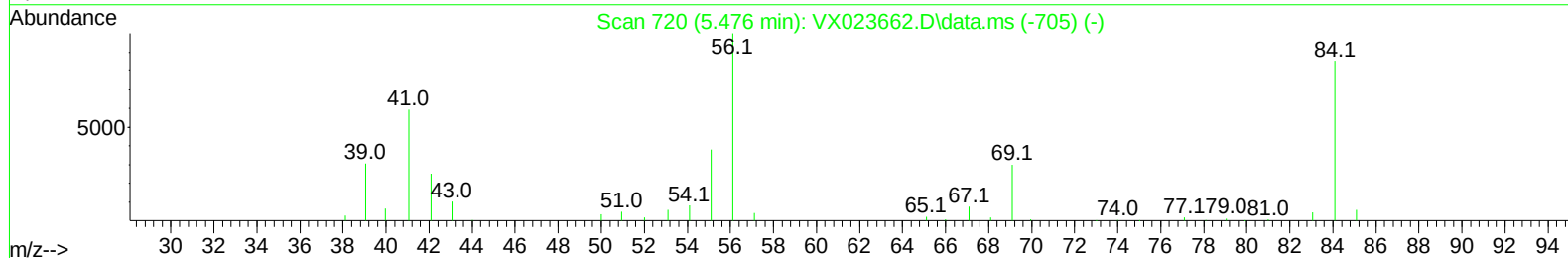
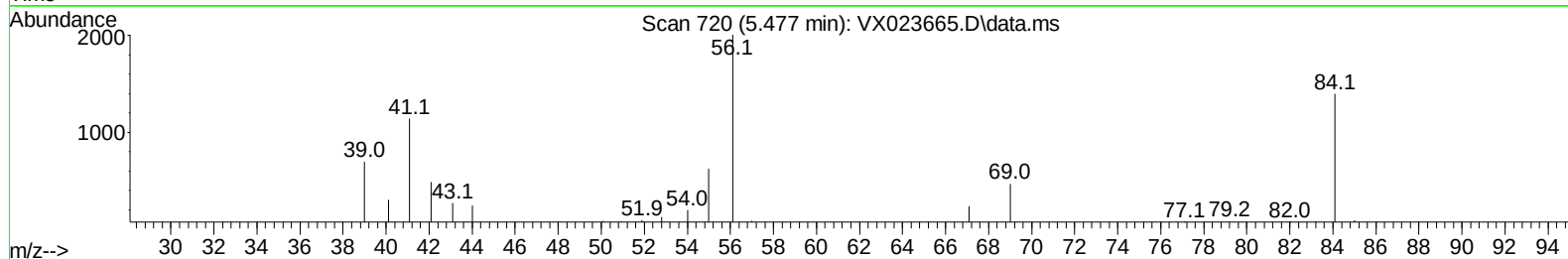
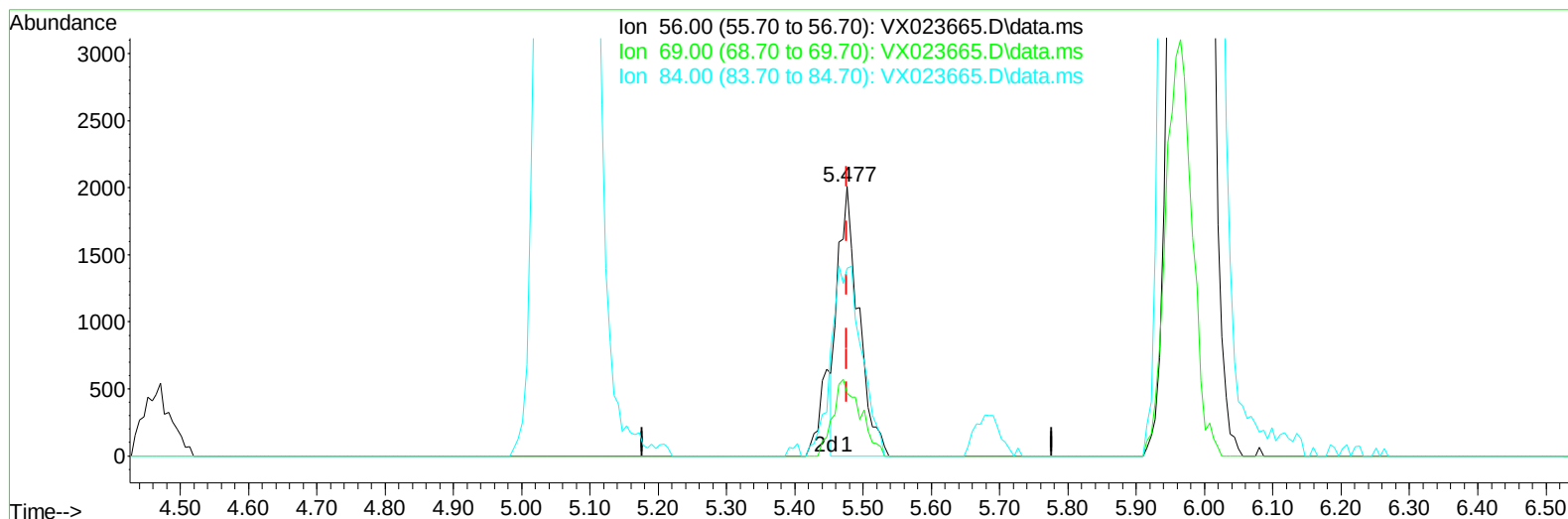
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TIC: VX023665.D\data.ms

(29) Cyclohexane (T)

5.477min (+ 0.000) 1.58 ug/L

response 4272

Ion	Exp%	Act%
56.00	100.00	100.00
69.00	32.10	24.27#
84.00	90.50	47.43#
0.00	0.00	0.00

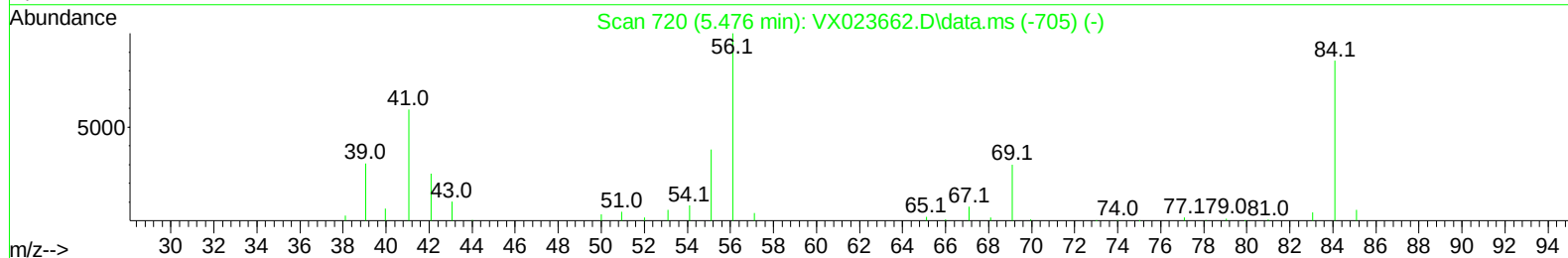
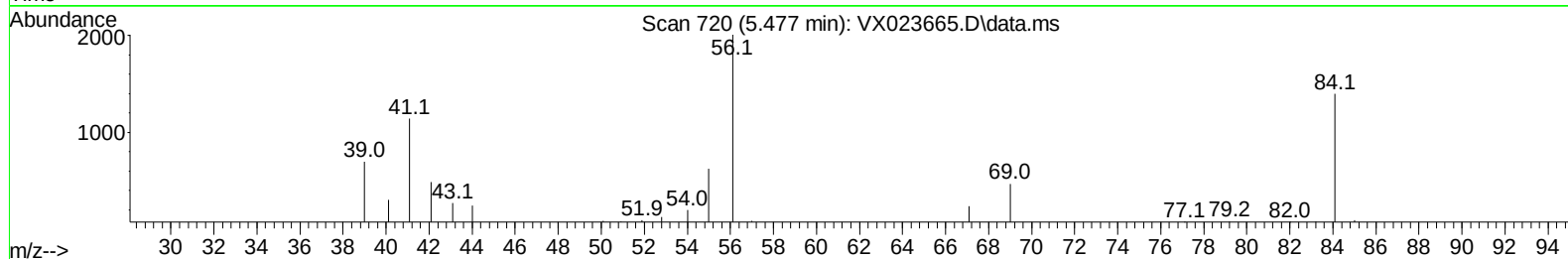
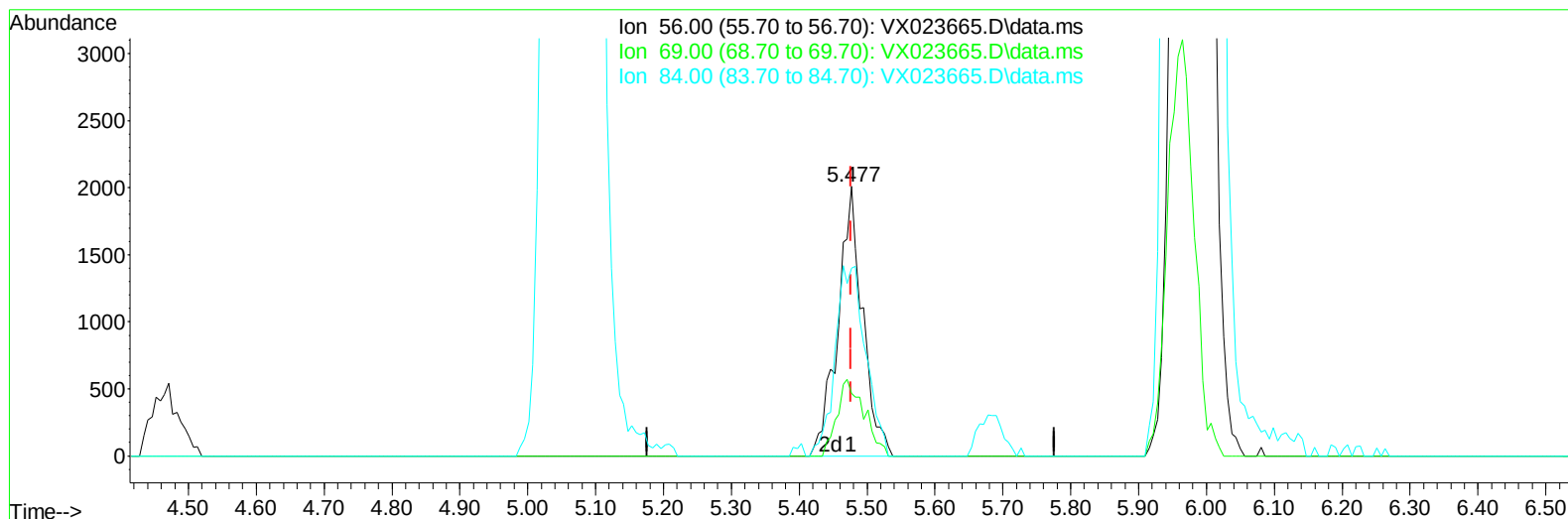
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TIC: VX023665.D\data.ms

(29) Cyclohexane (T)

5.477min (+ 0.000) 1.88 ug/L m

response 5092

Ion	Exp%	Act%
56.00	100.00	100.00
69.00	32.10	20.37#
84.00	90.50	39.79#
0.00	0.00	0.00

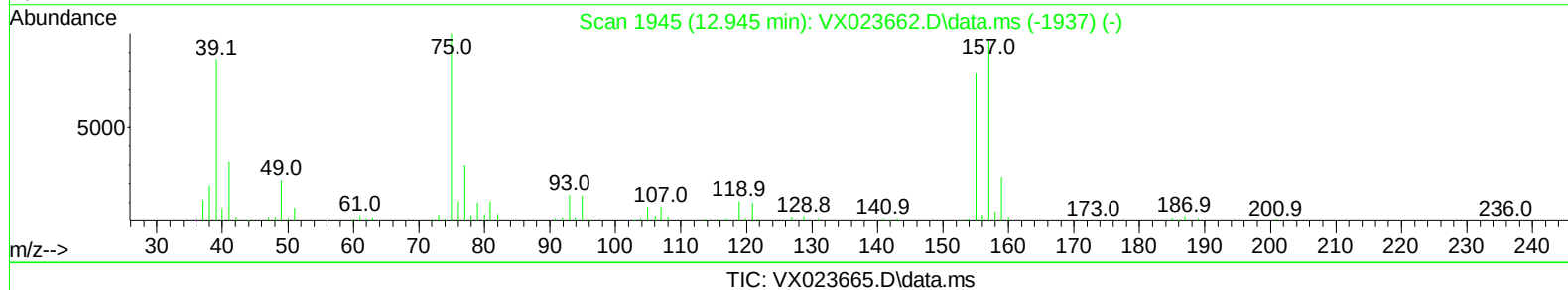
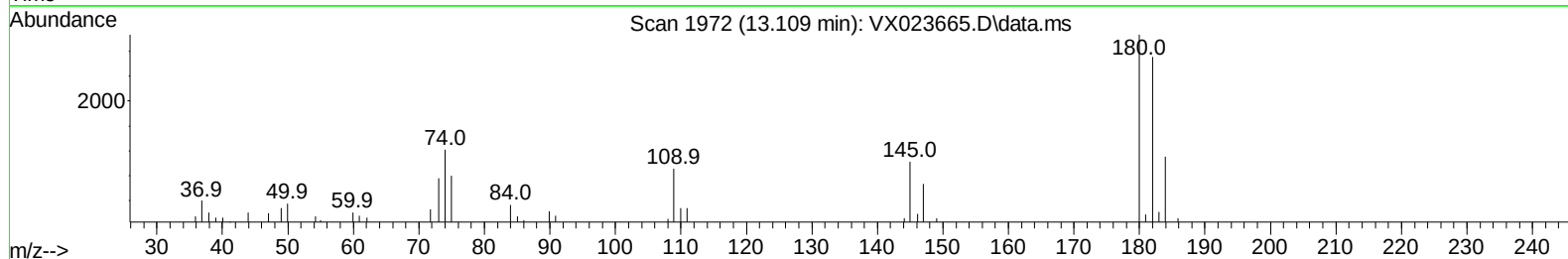
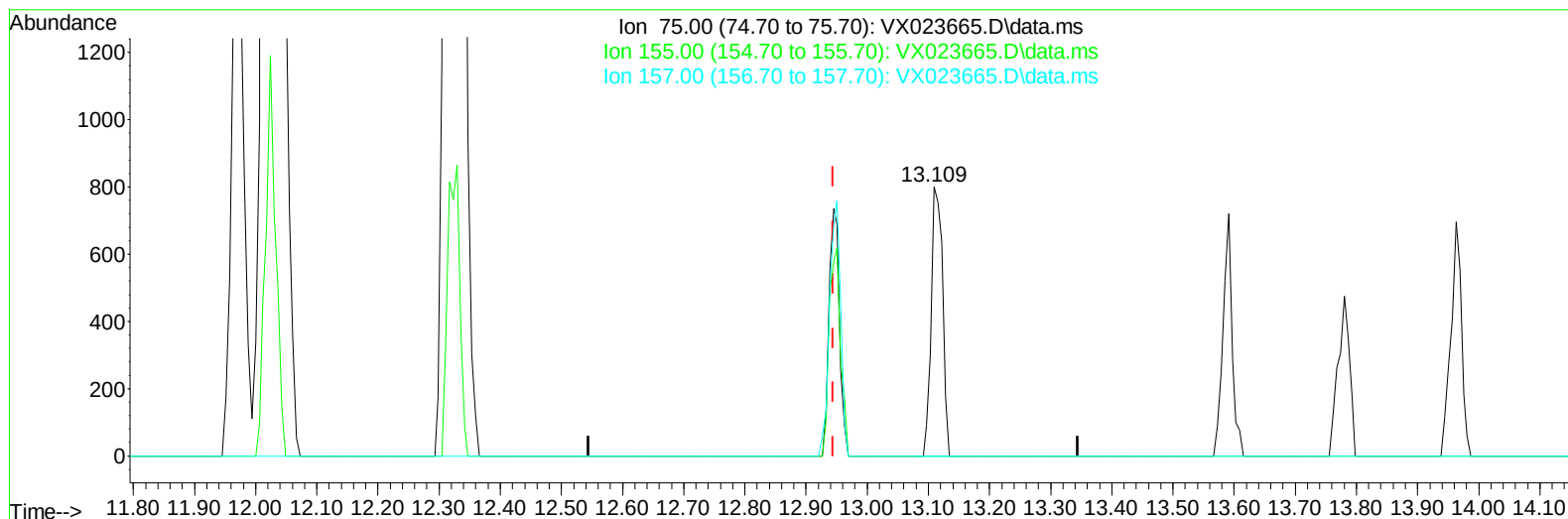
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(68) 1,2-Dibromo-3-chloropropane (T)

13.109min (+ 0.165) 1.73 ug/L

response 1011

Ion	Exp%	Act%
75.00	100.00	100.00
155.00	81.60	0.00#
157.00	100.60	0.00#
0.00	0.00	0.00

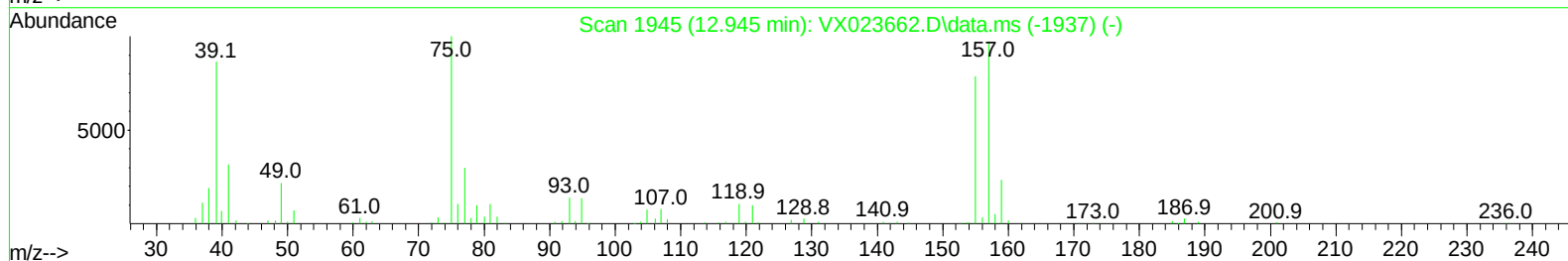
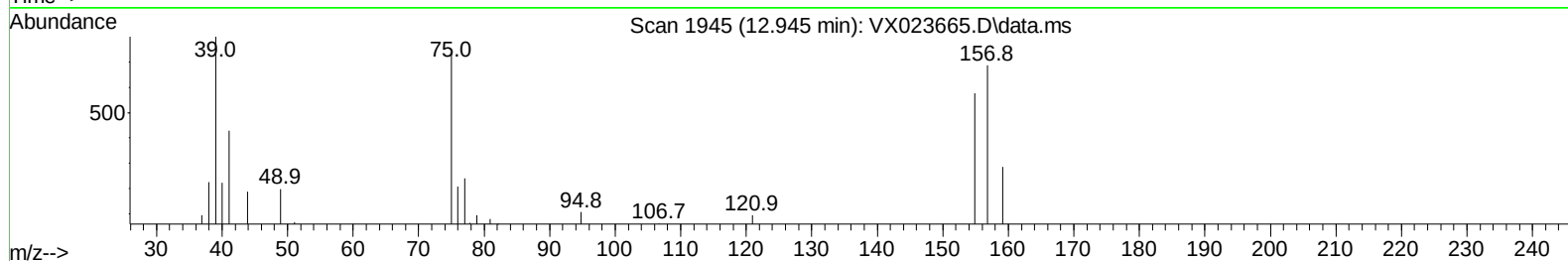
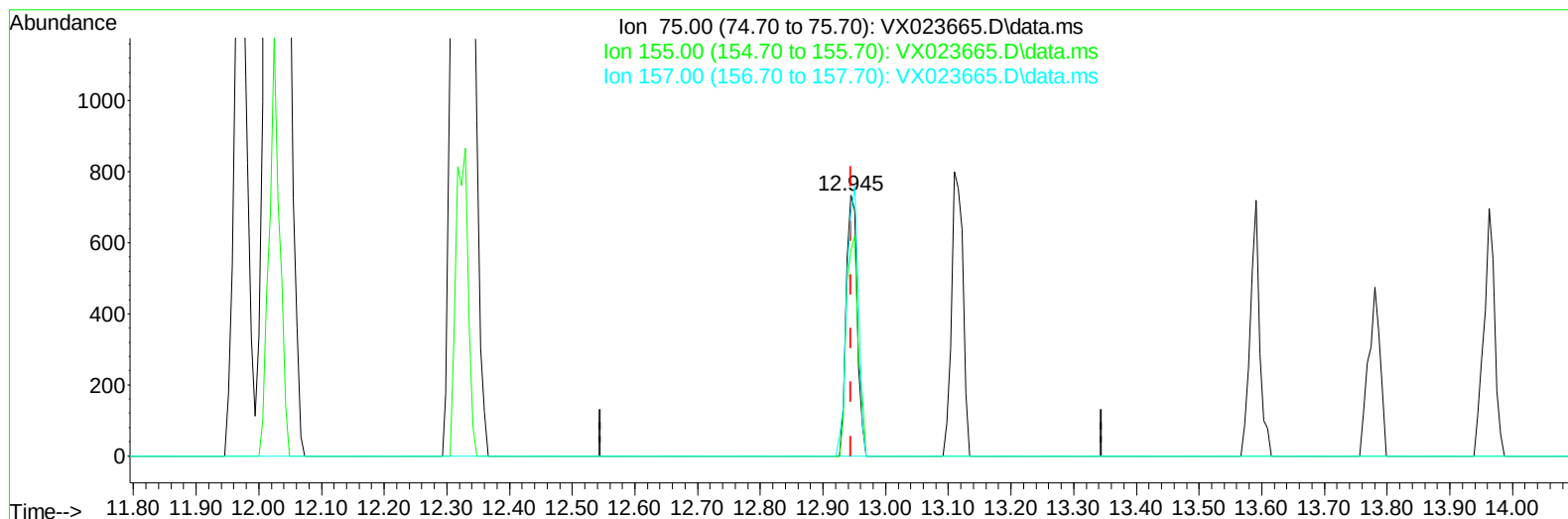
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MSVOA_X
ClientSampleId :
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Manual Integrations
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TIC: VX023665.D\data.ms

(68) 1,2-Dibromo-3-chloropropane (T)

12.945min (+ 0.000) 1.54 ug/L m

response 899

Ion	Exp%	Act%
75.00	100.00	100.00
155.00	81.60	78.50
157.00	100.60	93.33
0.00	0.00	0.00

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 Operator : JC/MD
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 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
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Manual Integrations
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 Quant Title : VOC Analysis
 QLast Update : Fri Aug 13 01:00:38 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.769	114	303953	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	280824	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	124770	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	72045	45.474	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	=	90.940%	
7) Chloroethane-d5	1.666	69	65210	50.105	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	100.200%	
11) 1,1-Dichloroethene-d2	2.307	63	127598	37.078	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	74.160%	
21) 2-Butanone-d5	4.465	46	159643	104.519	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	=	104.520%	
24) Chloroform-d	5.068	84	172700	48.141	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	96.280%	
26) 1,2-Dichloroethane-d4	5.964	65	123823	50.352	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	100.700%	
32) Benzene-d6	5.977	84	357792	50.577	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	101.160%	
36) 1,2-Dichloropropane-d6	7.312	67	114261	51.334	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	=	102.660%	
41) Toluene-d8	8.653	98	335653	49.267	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	98.540%	
43) trans-1,3-Dichloroprop...	8.952	79	47777	45.358	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	90.720%	
47) 2-Hexanone-d5	9.385	63	112921	105.522	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	=	105.520%	
56) 1,1,2,2-Tetrachloroeth...	11.195	84	146939	49.556	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	=	99.120%	
66) 1,2-Dichlorobenzene-d4	12.323	152	114150	52.136	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	104.280%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	3705	1.962	ug/L #	86
3) Chloromethane	1.295	50	3763	2.094	ug/L	83
5) Vinyl chloride	1.374	62	4062	2.225	ug/L #	67
6) Bromomethane	1.605	94	2865	2.526	ug/L	100
8) Chloroethane	1.685	64	2696	2.330	ug/L	91
9) Trichlorofluoromethane	1.886	101	6525	2.132	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.331	101	5063	2.831	ug/L #	84
12) 1,1-Dichloroethene	2.319	96	4218	2.727	ug/L #	1
13) Acetone	2.386	43	6574	4.889	ug/L	94
14) Carbon disulfide	2.508	76	5579	1.794	ug/L	99
15) Methyl Acetate	2.709	43	5197	2.319	ug/L	91
16) Methylene chloride	2.794	84	4537	2.356	ug/L	92
17) trans-1,2-Dichloroethene	3.093	96	3327	2.032	ug/L	96
18) Methyl tert-butyl Ether	3.123	73	12029	1.982	ug/L #	95
19) 1,1-Dichloroethane	3.611	63	6783	2.032	ug/L	91
20) cis-1,2-Dichloroethene	4.489	96	4018	2.031	ug/L	87
22) 2-Butanone	4.568	43	8591	4.688	ug/L	75
23) Bromochloromethane	4.898	128	2184m	2.089	ug/L	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	5.105	83	12689	3.520	ug/L	94
27) 1,2-Dichloroethane	6.092	62	6378	2.193	ug/L	97
29) Cyclohexane	5.477	56	5092m	1.884	ug/L	
30) 1,1,1-Trichloroethane	5.391	97	5881	1.939	ug/L #	81
31) Carbon tetrachloride	5.684	117	5046	1.981	ug/L	90
33) Benzene	6.044	78	15336	2.091	ug/L	100
34) Trichloroethene	7.129	95	4119	2.099	ug/L	88
35) Methylcyclohexane	7.385	83	5516	1.957	ug/L	99
37) 1,2-Dichloropropane	7.428	63	4105	2.040	ug/L #	93
38) Bromodichloromethane	7.824	83	4922	1.961	ug/L	90
39) cis-1,3-Dichloropropene	8.373	75	5723	1.943	ug/L	86
40) 4-Methyl-2-pentanone	8.580	43	13226	4.078	ug/L	90
42) Toluene	8.720	91	21397	2.631	ug/L	98
44) trans-1,3-Dichloropropene	8.982	75	5455	1.838	ug/L	95
45) 1,1,2-Trichloroethane	9.159	97	4215	2.062	ug/L	97
46) Tetrachloroethene	9.275	164	3143	2.111	ug/L	95
48) 2-Hexanone	9.433	43	11753	4.488	ug/L #	91
49) Dibromochloromethane	9.525	129	3607	1.748	ug/L	90
50) 1,2-Dibromoethane	9.610	107	4400	2.102	ug/L #	85
51) Chlorobenzene	10.086	112	11074	2.050	ug/L	93
52) Ethylbenzene	10.195	91	17050	1.915	ug/L	97
53) m,p-Xylene	10.305	106	6439	1.897	ug/L	95
54) o-Xylene	10.640	106	5995	1.773	ug/L	80
55) Styrene	10.659	104	10028	1.760	ug/L	98
57) 1,1,2,2-Tetrachloroethane	11.213	83	7324	2.357	ug/L	95
59) Bromoform	10.799	173	2209	1.651	ug/L #	97
60) Isopropylbenzene	10.964	105	15939	1.882	ug/L	97
61) 1,2,3-Trichloropropane	11.244	75	5578	2.223	ug/L	99
62) 1,3,5-Trimethylbenzene	11.457	105	13201	1.926	ug/L	99
63) 1,2,4-Trimethylbenzene	11.756	105	12753	1.830	ug/L	99
64) 1,3-Dichlorobenzene	11.976	146	6964	1.883	ug/L	86
65) 1,4-Dichlorobenzene	12.043	146	7996	2.171	ug/L	94
67) 1,2-Dichlorobenzene	12.341	146	7808	2.150	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.945	75	899m	1.538	ug/L	
69) 1,3,5-Trichlorobenzene	13.116	180	4829	1.891	ug/L	97
70) 1,2,4-trichlorobenzene	13.591	180	3817	1.736	ug/L	94
71) Naphthalene	13.780	128	11883	1.559	ug/L	97
72) 1,2,3-Trichlorobenzene	13.963	180	3550	1.567	ug/L	92

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

Instrument :
MSVOA_X
ClientSampleId :
MDL-SOIL-QT4-2021-08

MMDadoda
8/13/2021 3:43:54 PM

Abundance

TIC: VX023665.D\data.ms

Time-->

750000

700000

650000

600000

550000

500000

450000

400000

350000

300000

250000

200000

150000

100000

50000

0

0.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

Chloroethane, T

Vinyl chloride-d3, S

Bromoethane, T

Chloroethane-d5, S

Trichlorofluoromethane, T

Acetylene, T

1,1,2-Trichloro-1,2,2-tetrafluoroethane, T

1,1-Dichloroethene-d2, S

Carbon disulfide, T

Methyl acetate, T

Acetylene, T

1,1-Dichloroethane, T

2-Butanone, T

1,2-Dichloroethane-d5, S

Bromochloromethane, T

Chloroform, T

Chloroform-d, S

Cyclohexane, T

1,2-Dichloroethane, T

Carbon tetrachloride, T

1,2-Dichloroethane, T

1,2-Dichloroethane-d4, S

1,4-Difluorobenzene, I

Trichloroethene, T

1,2-Dichloropropane-d6, S

Bromodichloromethane, T

dis-1,3-Dichloropropene, T

4-Methyl-2-pentanone, T

Toluene, I

trans-1,3-Dichloropropene, T

trans-1,3-Dichloropropene-d4, S

1,2-Dichloroethane, T

1,3-Dichloropropane, T

1,2-Dichloropropane, T

1,2-Dichloropropane, T

Chlorobenzene, T

Chlorobenzene-d5, I

Chlorobenzene, T

Chlorobenzene, T

Isopropylbenzene

Bromobenzene, T

1,2,3-Trichloropropane, T

1,1,2,2-Tetrachloroethane, T

1,3,5-Trimethylbenzene

1,2,4-Trimethylbenzene

1,3-Dichlorobenzene, T

1,3-Dichlorobenzene, T

1,2-Dichlorobenzene, T

1,2-Dichlorobenzene, T

1,2-Dibromo-3-chloropropane, T

1,3,5-Trichlorobenzene

1,2,4-trichlorobenzene, T

Naphthalene

1,2,3-Trichlorobenzene, T

1,4-Dichlorobenzene-d4, I

1,2-Dichlorobenzene-d4, S