

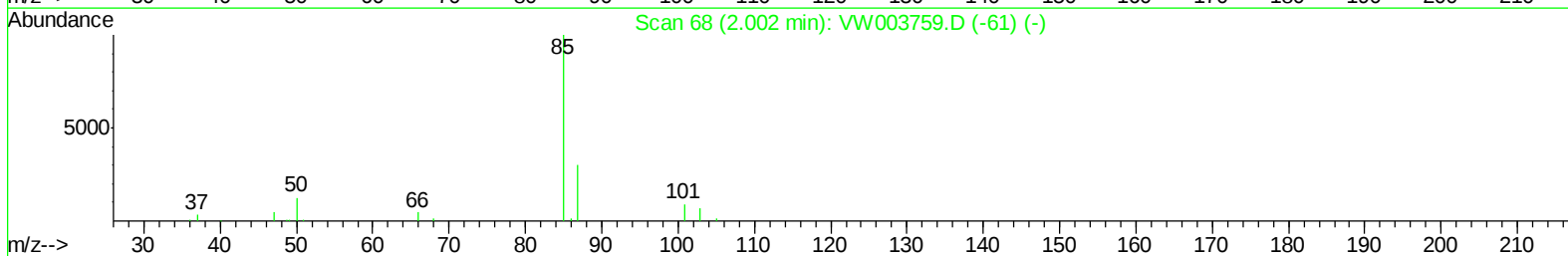
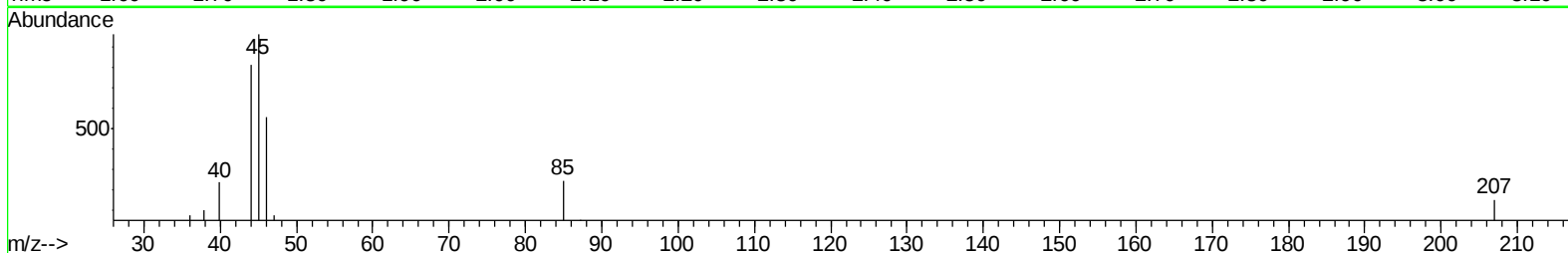
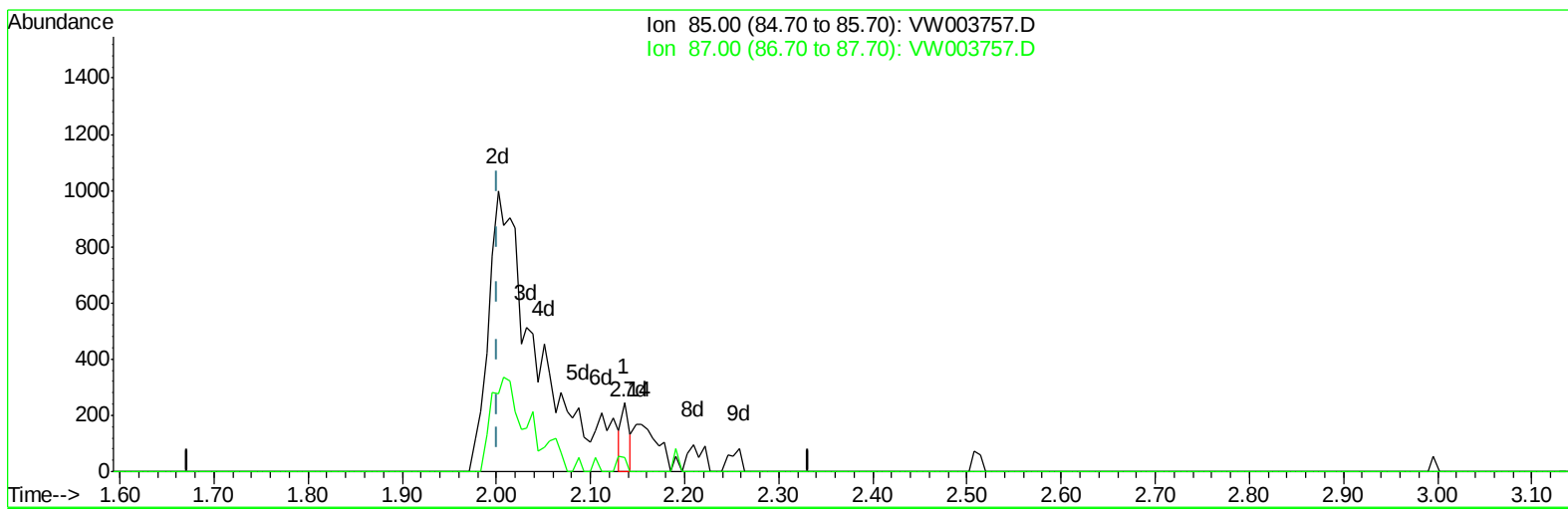
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070818\
 Data File : VW003757.D
 Acq On : 07 Jul 2018 09:27
 Operator : SY/AP
 Sample : VSTD2.587
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.587

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 12:57:17 PM

Quant Time: Jul 09 04:17:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jul 09 04:17:35 2018
 Response via : Initial Calibration



TIC: VW003757.D

(2) Dichlorodifluoromethane (T)

2.136min (+0.134) 0.05ug/L

response 139

Ion	Exp%	Act%
85.00	100	100
87.00	23.40	27.34
0.00	0.00	0.00
0.00	0.00	0.00

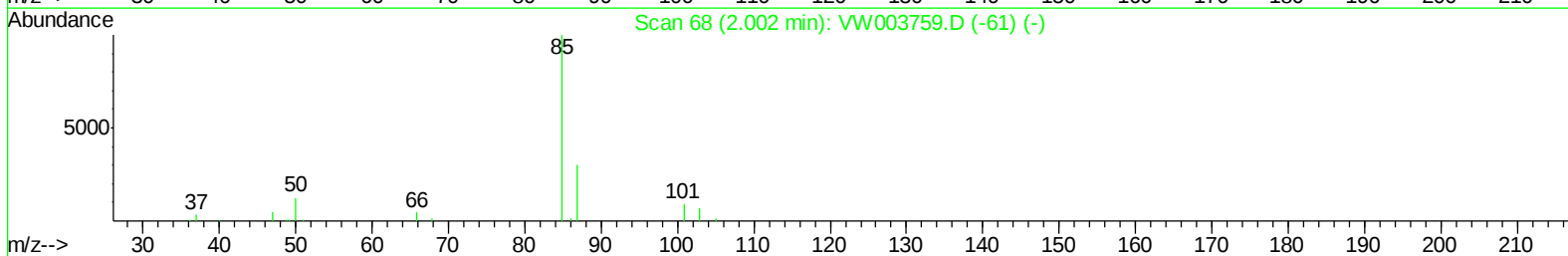
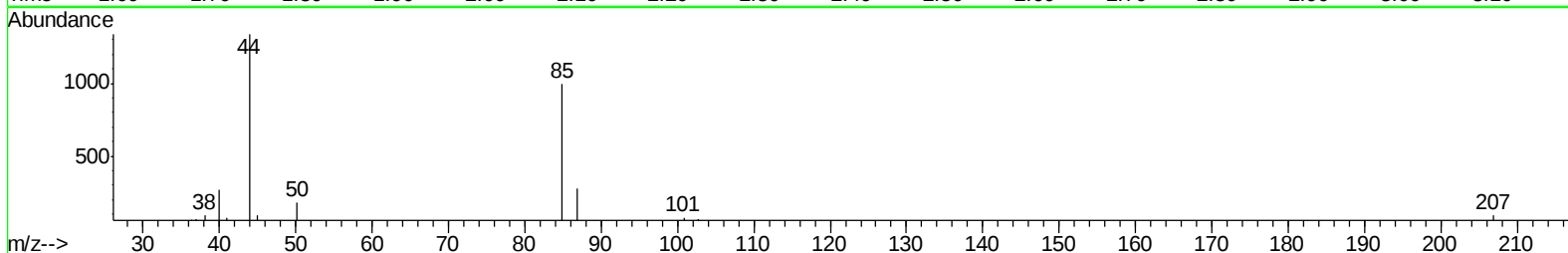
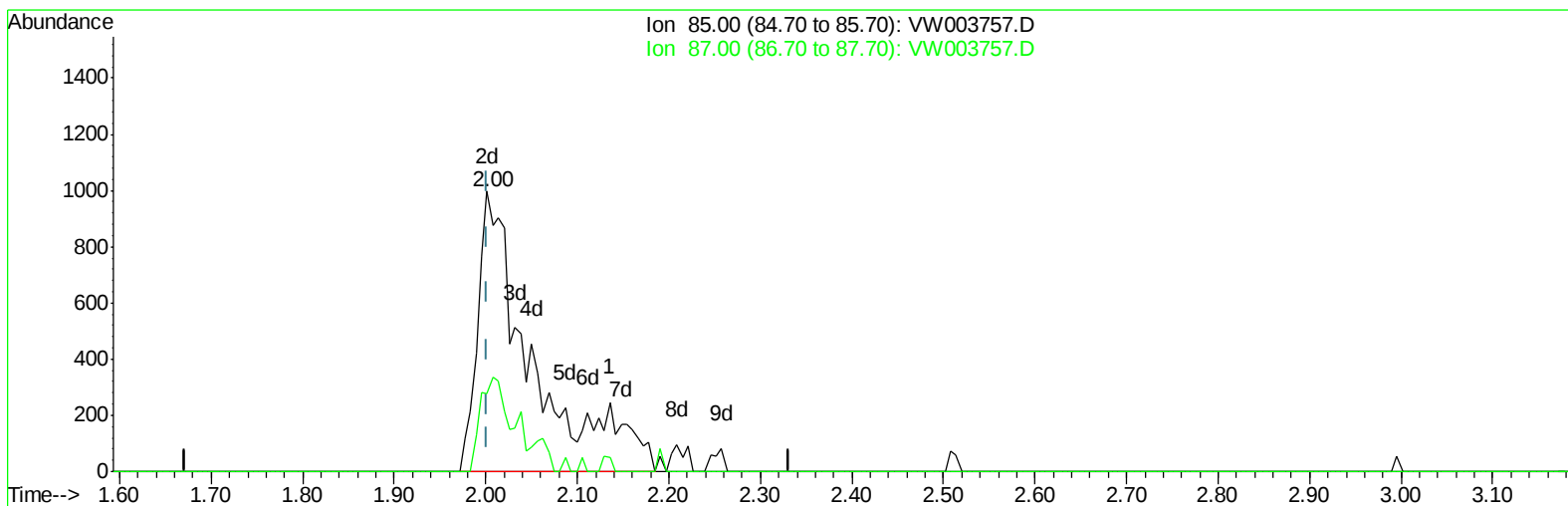
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070818\
Data File : VW003757.D
Acq On : 07 Jul 2018 09:27
Operator : SY/AP
Sample : VSTD2.587
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.587

Manual Integrations
APPROVED

MMDadoda
7/9/2018 12:57:17 PM

Quant Time: Jul 09 04:17:49 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
Quant Title : VOC Analysis
QLast Update : Mon Jul 09 04:17:35 2018
Response via : Initial Calibration



TIC: VW003757.D

(2) Dichlorodifluoromethane (T)

2.002min (-0.000) 1.32ug/L m

response 4059

Ion	Exp%	Act%
85.00	100	100
87.00	23.40	0.94#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070818\
 Data File : VW003757.D
 Acq On : 07 Jul 2018 09:27
 Operator : SY/AP
 Sample : VSTD2.587
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.587

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 12:57:17 PM

Quant Time: Jul 09 04:23:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jul 09 04:17:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	362816	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	339291	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	164233	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	12245	2.52	ug/L	0.00
7) Chloroethane-d5	2.89	69	8920	2.40	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	25610	2.76	ug/L	0.00
20) 2-Butanone-d5	7.09	46	7990	5.20	ug/L	0.00
24) Chloroform-d	7.65	84	25130	2.54	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	15061	2.55	ug/L	0.00
29) Benzene-d6	8.27	84	45261	2.52	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.28	67	14738	2.52	ug/L	0.00
37) Toluene-d8	10.33	98	40390	2.37	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	6243	2.33	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	4464	3.99	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.70	84	13100	2.40	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.87	152	15491	2.50	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.00	85	4059m	1.315	ug/L
3) Chloromethane	2.21	50	9824	2.328	ug/L 97
5) Vinyl chloride	2.36	62	15068	2.443	ug/L 98
6) Bromomethane	2.78	94	7502	2.124	ug/L 96
8) Chloroethane	2.92	64	8159	2.407	ug/L 98
9) Trichlorofluoromethane	3.25	101	7934	2.762	ug/L 96
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	11716	2.567	ug/L # 60
12) 1,1-Dichloroethene	4.03	96	12031	2.693	ug/L 91
13) Acetone	4.15	43	10042	5.906	ug/L 98
14) Carbon disulfide	4.37	76	38479	2.641	ug/L 99
15) Methyl Acetate	4.68	43	7635	2.811	ug/L # 85
16) Methylene chloride	4.90	84	15092	2.595	ug/L 98
17) Methyl tert-butyl Ether	5.43	73	20550	2.410	ug/L # 91
18) trans-1,2-Dichloroethene	5.42	96	12656	2.613	ug/L 95
19) 1,1-Dichloroethane	6.21	63	23223	2.464	ug/L 97
21) 2-Butanone	7.18	43	9700	4.537	ug/L 98
22) cis-1,2-Dichloroethene	7.17	96	12716	2.393	ug/L 95
23) Bromochloromethane	7.51	128	6074	2.429	ug/L 92
25) Chloroform	7.68	83	24249	2.480	ug/L 99
27) 1,2-Dichloroethane	8.40	62	17305	2.418	ug/L 98
30) Cyclohexane	7.96	56	17658	2.228	ug/L 99
31) 1,1,1-Trichloroethane	7.87	97	20019	2.644	ug/L # 83
32) Carbon tetrachloride	8.07	117	18034	2.433	ug/L 99
34) Benzene	8.32	78	49681	2.430	ug/L 100
35) Trichloroethene	9.09	95	14100	2.592	ug/L 97
36) Methylcyclohexane	9.34	83	21021	2.298	ug/L 96
40) 1,2-Dichloropropane	9.37	63	13389	2.472	ug/L 99
41) Bromodichloromethane	9.65	83	16751	2.379	ug/L 94
42) cis-1,3-Dichloropropene	10.07	75	17618	2.184	ug/L 97
43) 4-Methyl-2-pentanone	10.22	43	16521	4.243	ug/L 98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070818\
 Data File : VW003757.D
 Acq On : 07 Jul 2018 09:27
 Operator : SY/AP
 Sample : VSTD2.587
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.587

Manual Integrations
 APPROVED

MMDadoda
 7/9/2018 12:57:17 PM

Quant Time: Jul 09 04:23:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jul 09 04:17:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) Toluene	10.39	91	50108	2.293	ug/L	97
45) trans-1,3-Dichloropropene	10.61	75	16538	2.243	ug/L	95
46) 1,1,2-Trichloroethane	10.79	97	10051	2.441	ug/L	88
47) Tetrachloroethene	10.87	164	11185	2.481	ug/L	95
49) 2-Hexanone	10.98	43	12554	4.188	ug/L	98
50) Dibromochloromethane	11.13	129	11247	2.282	ug/L	99
51) 1,2-Dibromoethane	11.24	107	9547	2.405	ug/L	96
52) Chlorobenzene	11.66	112	35421	2.464	ug/L	95
53) Ethylbenzene	11.74	91	56349	2.281	ug/L	98
54) m,p-Xylene	11.85	106	19706	2.167	ug/L	95
55) o-xylene	12.17	106	18172	2.116	ug/L	99
56) Styrene	12.19	104	31075	2.069	ug/L	93
57) Isopropylbenzene	12.47	105	51620	2.191	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	13055	2.386	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	10198	2.499	ug/L	96
62) Bromoform	12.35	173	6735	2.290	ug/L #	97
63) 1,3-Dichlorobenzene	13.51	146	25632	2.468	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	28122	2.501	ug/L	97
65) 1,2-Dichlorobenzene	13.88	146	25552	2.518	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	2325	2.534	ug/L	92
67) 1,3,5-Trichlorobenzene	14.64	180	20769	2.538	ug/L	97
68) 1,2,4-trichlorobenzene	15.15	180	16339	2.486	ug/L	99
69) Naphthalene	15.38	128	28904	2.197	ug/L	97
70) 1,2,3-Trichlorobenzene	15.57	180	15168	2.443	ug/L	99

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

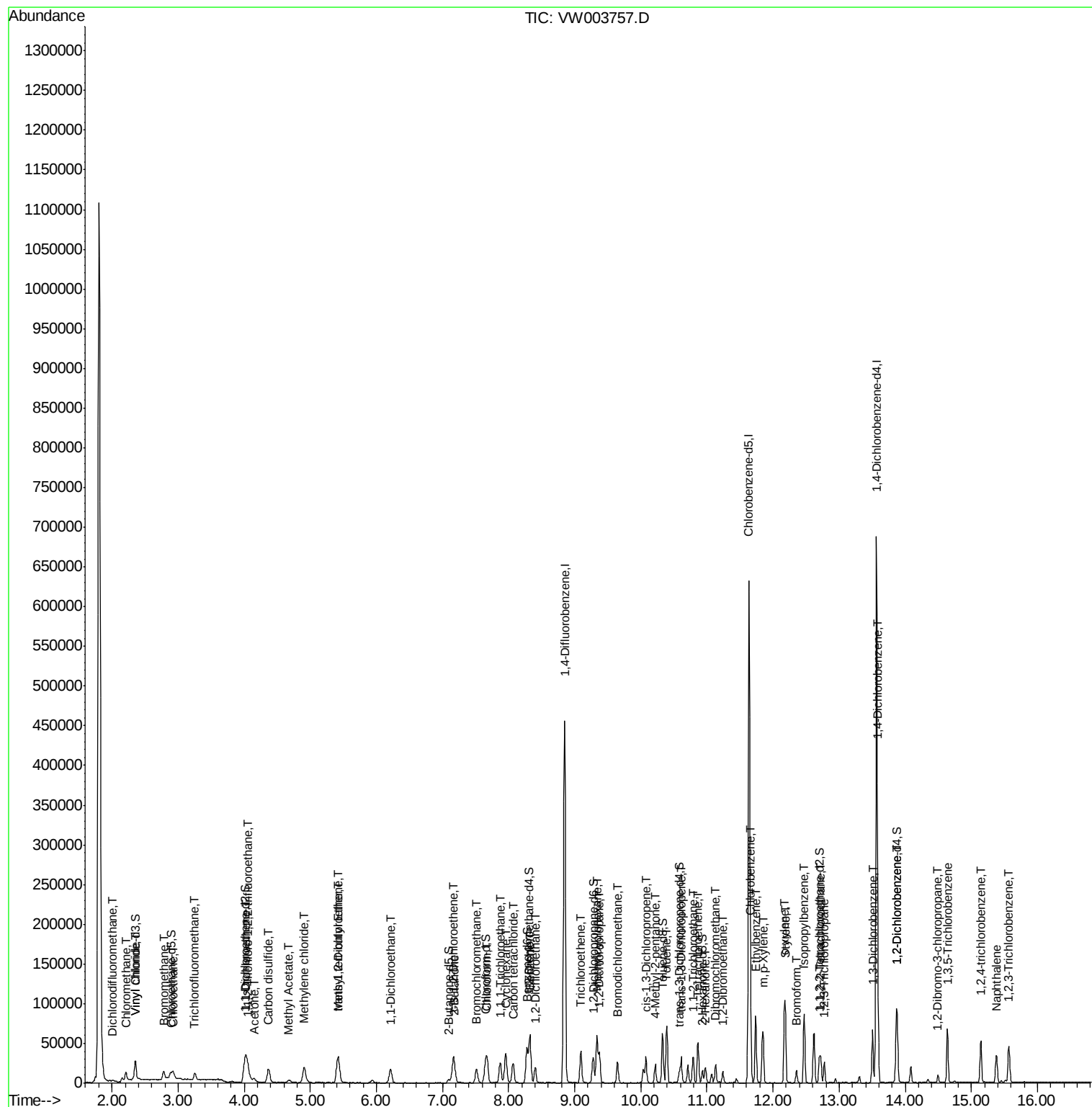
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070818\
Data File : VW003757.D
Acq On : 07 Jul 2018 09:27
Operator : SY/AP
Sample : VSTD2.587
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.587

Manual Integrations
APPROVED

MMDadoda
7/9/2018 12:57:17 PM

Quant Time: Jul 09 04:23:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
Quant Title : VOC Analysis
QLast Update : Mon Jul 09 04:17:35 2018
Response via : Initial Calibration



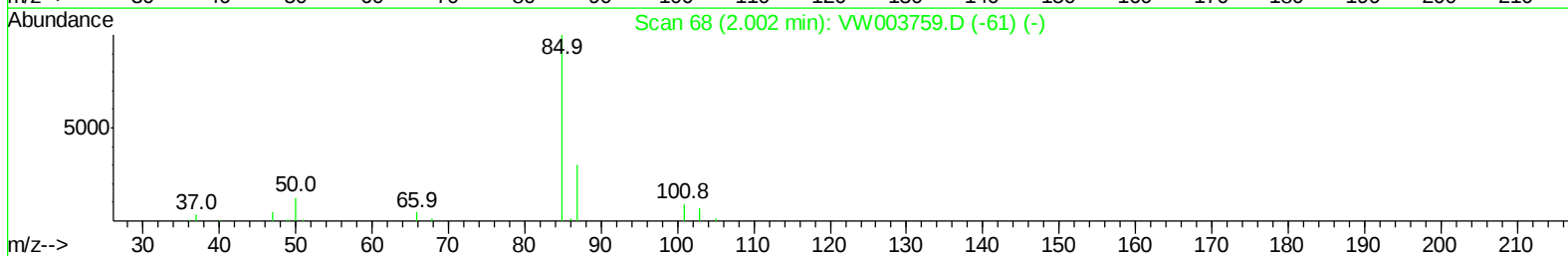
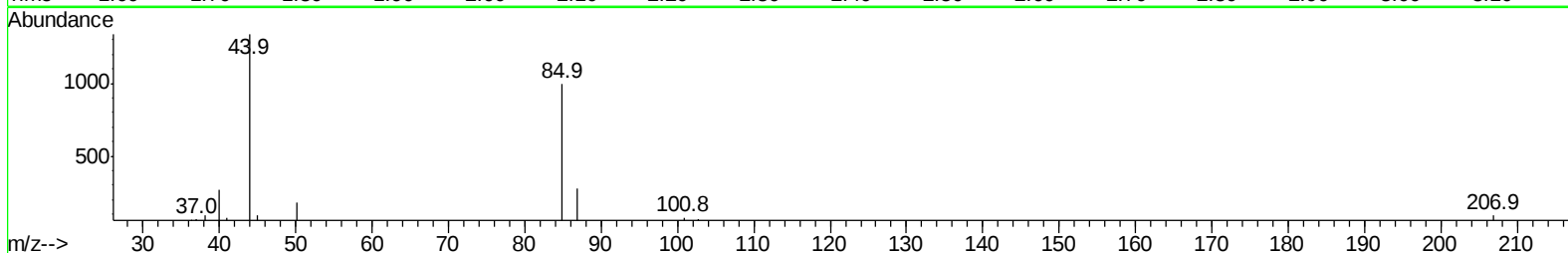
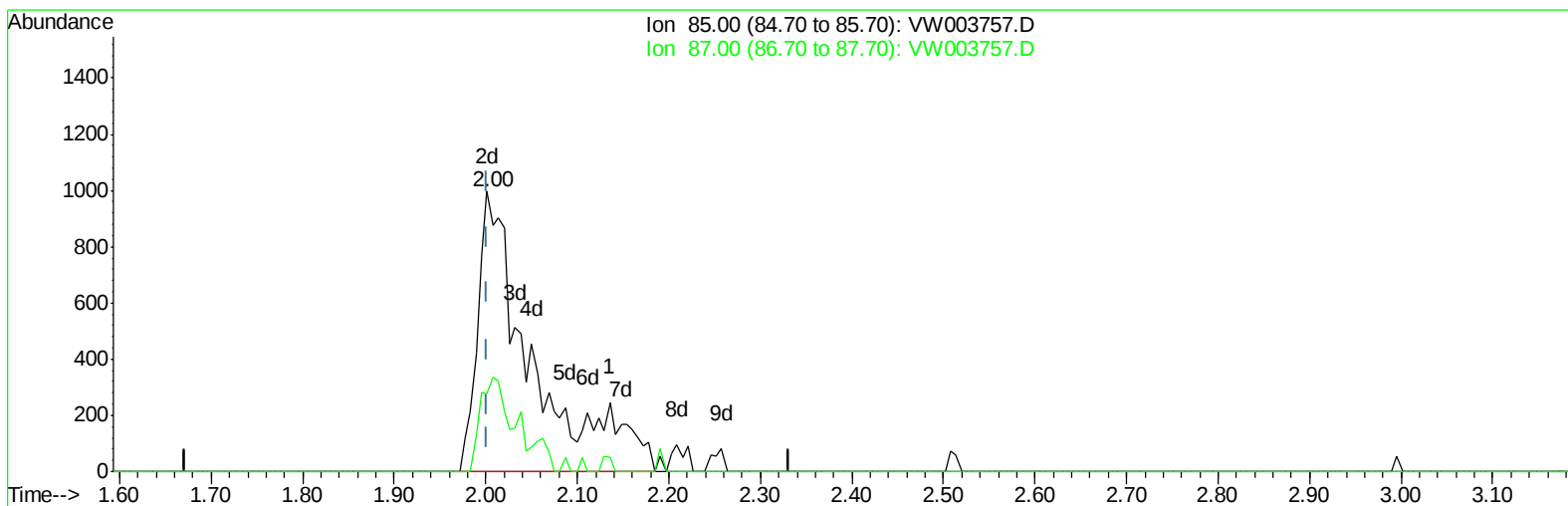
Data File : VW003757.D
Acq On : 07 Jul 2018 09:27
Operator : SY/AP
Sample : VSTD2.587
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.587

Manual Integrations
APPROVED

MMDadoda
7/9/2018 12:57:17 PM

Quant Time: Jul 09 04:23:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
Quant Title : VOC Analysis
QLast Update : Mon Jul 09 04:17:35 2018
Response via : Initial Calibration



TIC: VW003757.D

(2) Dichlorodifluoromethane (T)

2.002min (-0.000) 1.32ug/L m

response 4059

Ion	Exp%	Act%
85.00	100	100
87.00	23.40	0.94#
0.00	0.00	0.00
0.00	0.00	0.00

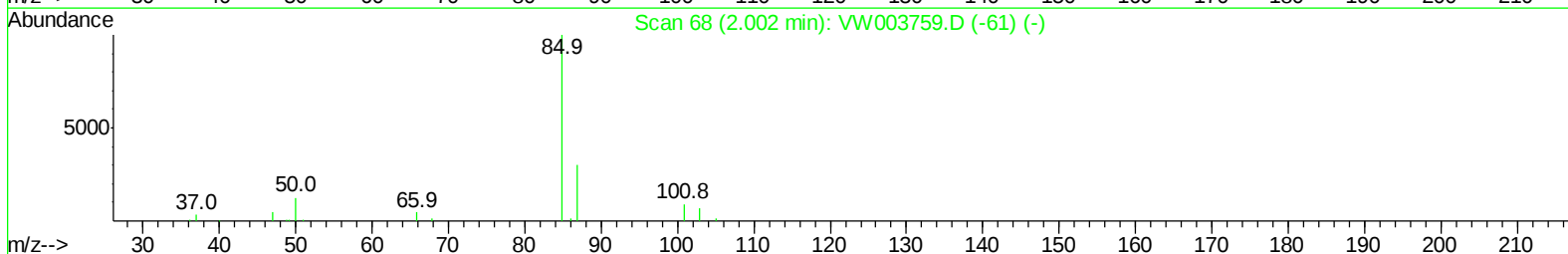
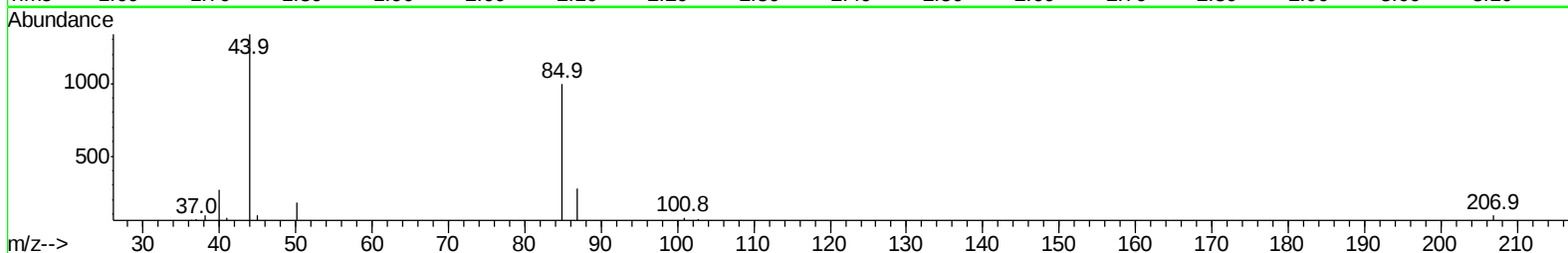
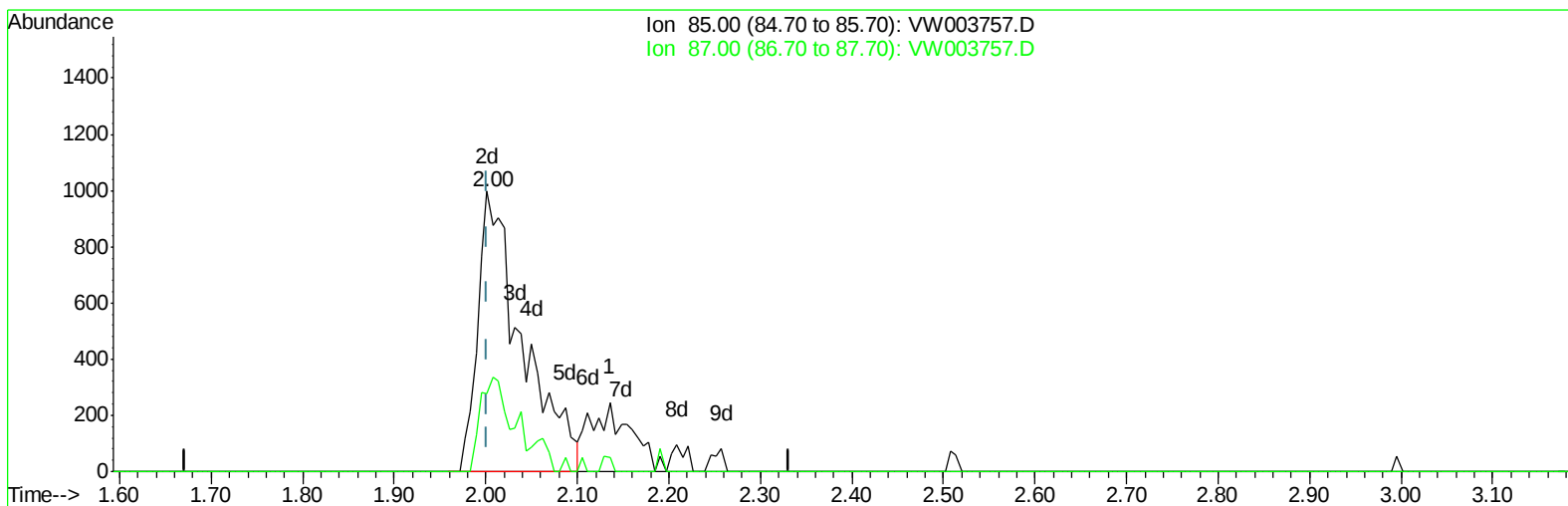
Data File : VW003757.D
Acq On : 07 Jul 2018 09:27
Operator : SY/AP
Sample : VSTD2.587
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.587

Manual Integrations
APPROVED

MMDadoda
7/9/2018 12:57:17 PM

Quant Time: Jul 09 04:23:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
Quant Title : VOC Analysis
QLast Update : Mon Jul 09 04:17:35 2018
Response via : Initial Calibration



TIC: VW003757.D

(2) Dichlorodifluoromethane (T)

2.002min (-0.000) 1.08ug/L m

response 3324

Ion	Exp%	Act%
85.00	100	100
87.00	23.40	1.14#
0.00	0.00	0.00
0.00	0.00	0.00

Data File : VW003757.D
Acq On : 07 Jul 2018 09:27
Operator : SY/AP
Sample : VSTD2.587
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.587

Manual Integrations
APPROVED

MMDadoda
7/9/2018 12:57:17 PM

Quant Time: Jul 09 09:22:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
Quant Title : VOC Analysis
QLast Update : Mon Jul 09 04:17:35 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	362816	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	339291	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	164233	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	12245	2.52	ug/L	0.00
7) Chloroethane-d5	2.89	69	8920	2.40	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	25610	2.76	ug/L	0.00
20) 2-Butanone-d5	7.09	46	7990	5.20	ug/L	0.00
24) Chloroform-d	7.65	84	25130	2.54	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	15061	2.55	ug/L	0.00
29) Benzene-d6	8.27	84	45261	2.52	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.28	67	14738	2.52	ug/L	0.00
37) Toluene-d8	10.33	98	40390	2.37	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	6243	2.33	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	4464	3.99	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.70	84	13100	2.40	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.87	152	15491	2.50	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.00	85	3324m	1.077 ug/L	
3) Chloromethane	2.21	50	9824	2.328 ug/L	97
5) Vinyl chloride	2.36	62	15068	2.443 ug/L	98
6) Bromomethane	2.78	94	7502	2.124 ug/L	96
8) Chloroethane	2.92	64	8159	2.407 ug/L	98
9) Trichlorofluoromethane	3.25	101	7934	2.762 ug/L	96
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	11716	2.567 ug/L #	60
12) 1,1-Dichloroethene	4.03	96	12031	2.693 ug/L	91
13) Acetone	4.15	43	10042	5.906 ug/L	98
14) Carbon disulfide	4.37	76	38479	2.641 ug/L	99
15) Methyl Acetate	4.68	43	7635	2.811 ug/L #	85
16) Methylene chloride	4.90	84	15092	2.595 ug/L	98
17) Methyl tert-butyl Ether	5.43	73	20550	2.410 ug/L #	91
18) trans-1,2-Dichloroethene	5.42	96	12656	2.613 ug/L	95
19) 1,1-Dichloroethane	6.21	63	23223	2.464 ug/L	97
21) 2-Butanone	7.18	43	9700	4.537 ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	12716	2.393 ug/L	95
23) Bromochloromethane	7.51	128	6074	2.429 ug/L	92
25) Chloroform	7.68	83	24249	2.480 ug/L	99
27) 1,2-Dichloroethane	8.40	62	17305	2.418 ug/L	98
30) Cyclohexane	7.96	56	17658	2.228 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	20019	2.644 ug/L #	83
32) Carbon tetrachloride	8.07	117	18034	2.433 ug/L	99
34) Benzene	8.32	78	49681	2.430 ug/L	100
35) Trichloroethene	9.09	95	14100	2.592 ug/L	97
36) Methylcyclohexane	9.34	83	21021	2.298 ug/L	96
40) 1,2-Dichloropropane	9.37	63	13389	2.472 ug/L	99
41) Bromodichloromethane	9.65	83	16751	2.379 ug/L	94
42) cis-1,3-Dichloropropene	10.07	75	17618	2.184 ug/L	97
43) 4-Methyl-2-pentanone	10.22	43	16521	4.243 ug/L	98

Data File : VW003757.D
Acq On : 07 Jul 2018 09:27
Operator : SY/AP
Sample : VSTD2.587
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.587

Manual Integrations
APPROVED

MMDadoda
7/9/2018 12:57:17 PM

Quant Time: Jul 09 09:22:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
Quant Title : VOC Analysis
QLast Update : Mon Jul 09 04:17:35 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	50108	2.293	ug/L	97
45) trans-1,3-Dichloropropene	10.61	75	16538	2.243	ug/L	95
46) 1,1,2-Trichloroethane	10.79	97	10051	2.441	ug/L	88
47) Tetrachloroethene	10.87	164	11185	2.481	ug/L	95
49) 2-Hexanone	10.98	43	12554	4.188	ug/L	98
50) Dibromochloromethane	11.13	129	11247	2.282	ug/L	99
51) 1,2-Dibromoethane	11.24	107	9547	2.405	ug/L	96
52) Chlorobenzene	11.66	112	35421	2.464	ug/L	95
53) Ethylbenzene	11.74	91	56349	2.281	ug/L	98
54) m,p-Xylene	11.85	106	19706	2.167	ug/L	95
55) o-xylene	12.17	106	18172	2.116	ug/L	99
56) Styrene	12.19	104	31075	2.069	ug/L	93
57) Isopropylbenzene	12.47	105	51620	2.191	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	13055	2.386	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	10198	2.499	ug/L	96
62) Bromoform	12.35	173	6735	2.290	ug/L #	97
63) 1,3-Dichlorobenzene	13.51	146	25632	2.468	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	28122	2.501	ug/L	97
65) 1,2-Dichlorobenzene	13.88	146	25552	2.518	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	2325	2.534	ug/L	92
67) 1,3,5-Trichlorobenzene	14.64	180	20769	2.538	ug/L	97
68) 1,2,4-trichlorobenzene	15.15	180	16339	2.486	ug/L	99
69) Naphthalene	15.38	128	28904	2.197	ug/L	97
70) 1,2,3-Trichlorobenzene	15.57	180	15168	2.443	ug/L	99

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

Data File : VW003757.D

```
Acq On       : 07 Jul 2018   09:27
Operator     : SY/AP
Sample       : VSTD2.587
Misc         : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial     : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.587

Manual Integrations
APPROVED

MMDadoda
7/9/2018 12:57:17 PM

Quant Time: Jul 09 09:22:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070818S.M
Quant Title : VOC Analysis
QLast Update : Mon Jul 09 04:17:35 2018
Response via : Initial Calibration

