

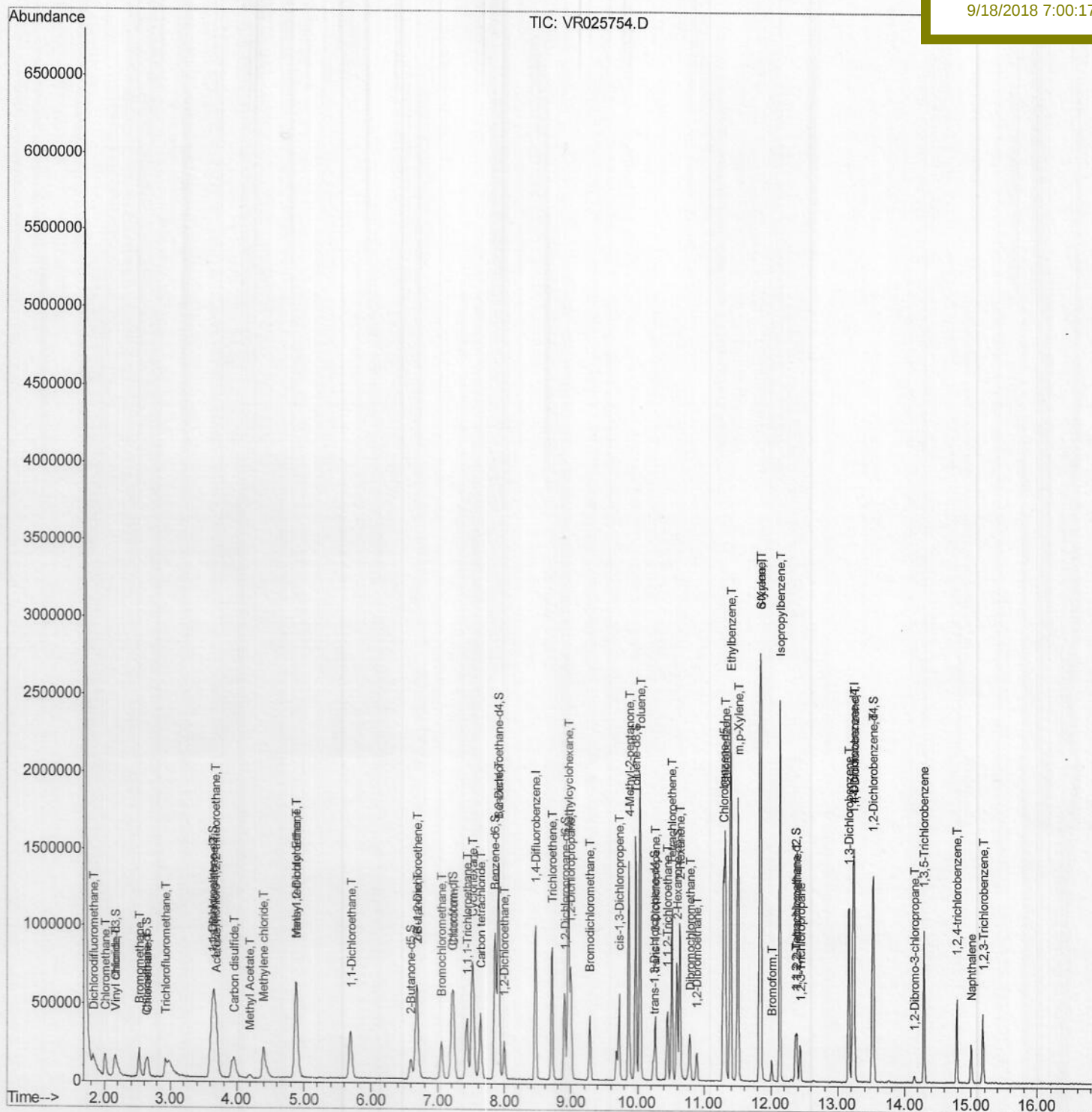
Data Path : Z:\voasrv\HPCHEM1\MSVOA R\Data\VR091718\
Data File : VR025754.D
Acq On : 17 Sep 2018 21:11
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25mL/MSVOA R/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 18 09:03:48 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\SOMRTR091718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Sep 17 16:10:44 2018
Response via : Initial Calibration

Instrument :
MSVOA_R
LabSampleId :
VSTD00506

Manual Integrations
APPROVED

MMDadoda
9/18/2018 7:00:17 PM



Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091718\

Data File : VR025754.D

Acq On : 17 Sep 2018 21:11

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25mL/MSVOA R/WATER

ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 18 07:53:25 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091718WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Sep 17 16:10:44 2018

Response via : Initial Calibration

Instrument :

MSVOA_R

LabSampleId :

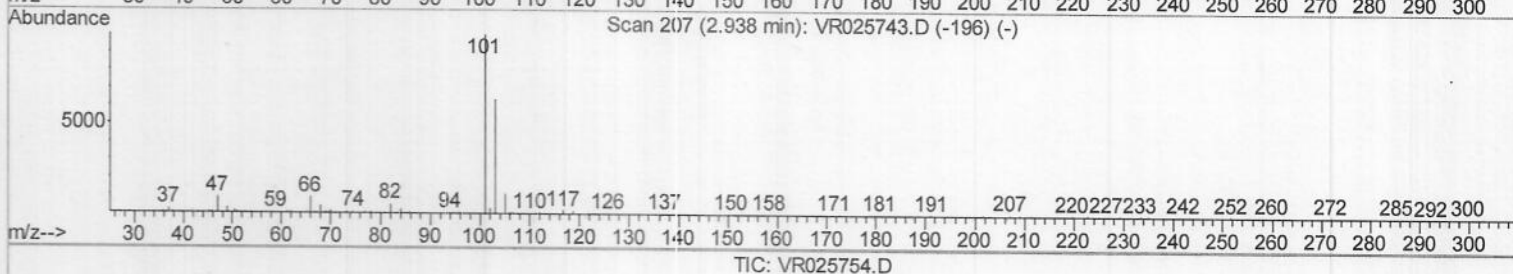
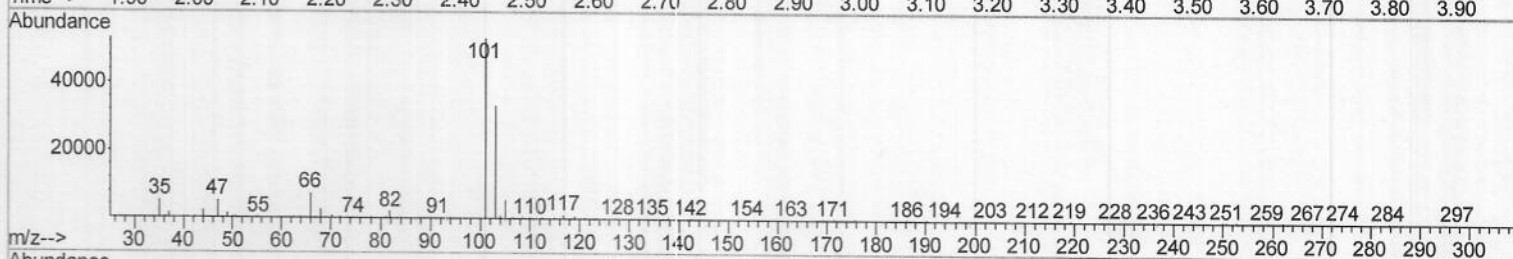
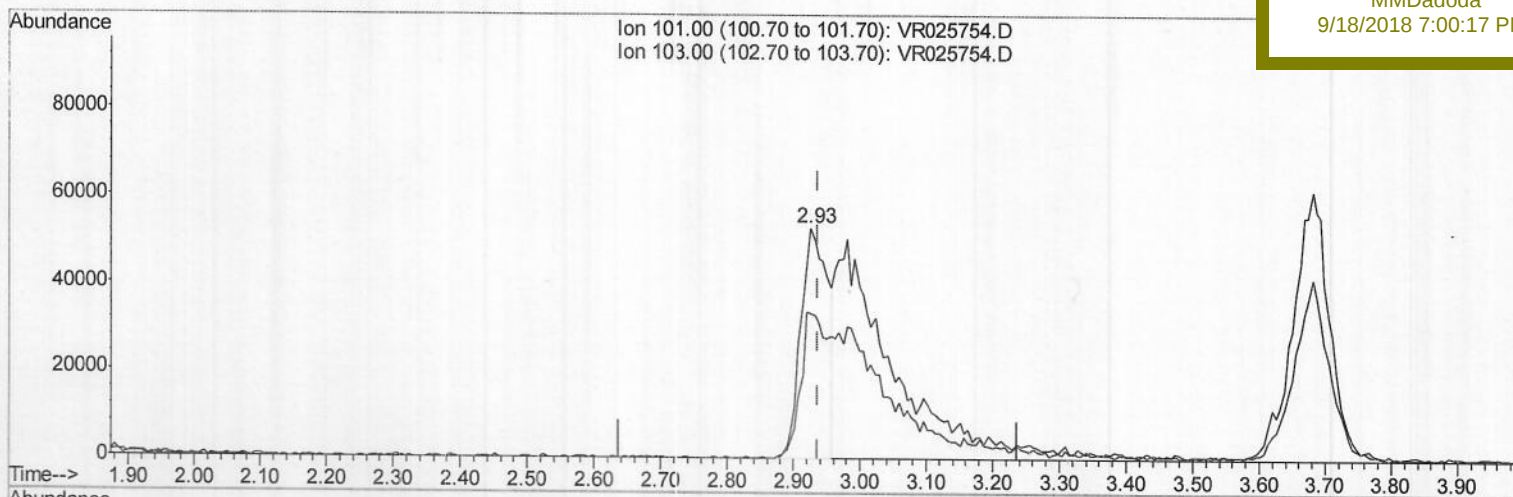
VSTD00506

Manual Integrations

APPROVED

MMDadoda

9/18/2018 7:00:17 PM



(9) Trichlorofluoromethane (T)

2.926min (-0.012) 1.61ug/L

response 146997

Ion	Exp%	Act%
101.00	100	100
103.00	16.90	57.84#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091718\

Data File : VR025754.D

Acq On : 17 Sep 2018 21:11

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25mL/MSVOA R/WATER

ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 18 07:53:25 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091718WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Sep 17 16:10:44 2018

Response via : Initial Calibration

Instrument :

MSVOA_R

LabSampleId :

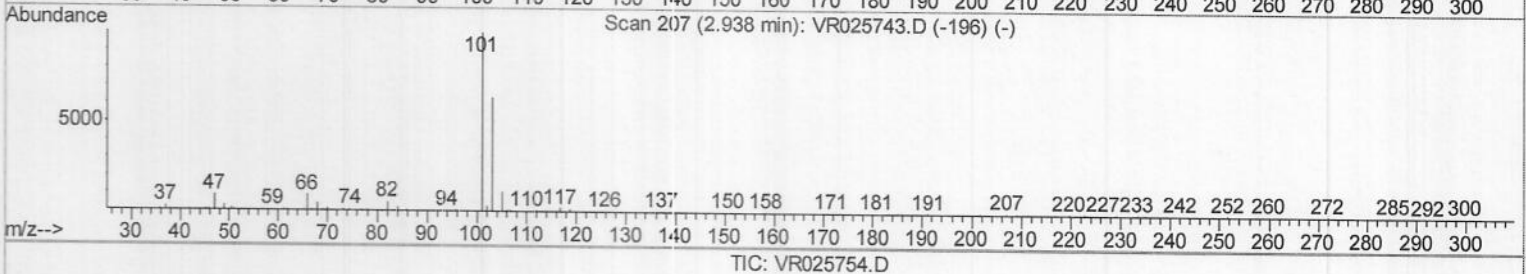
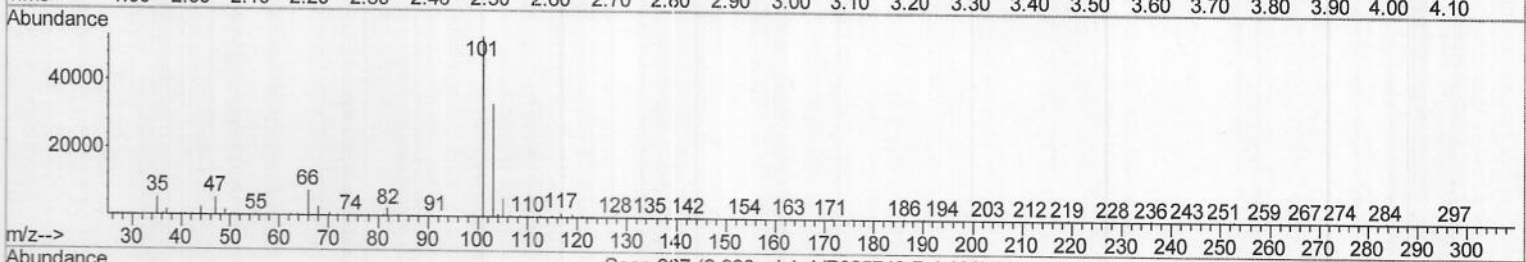
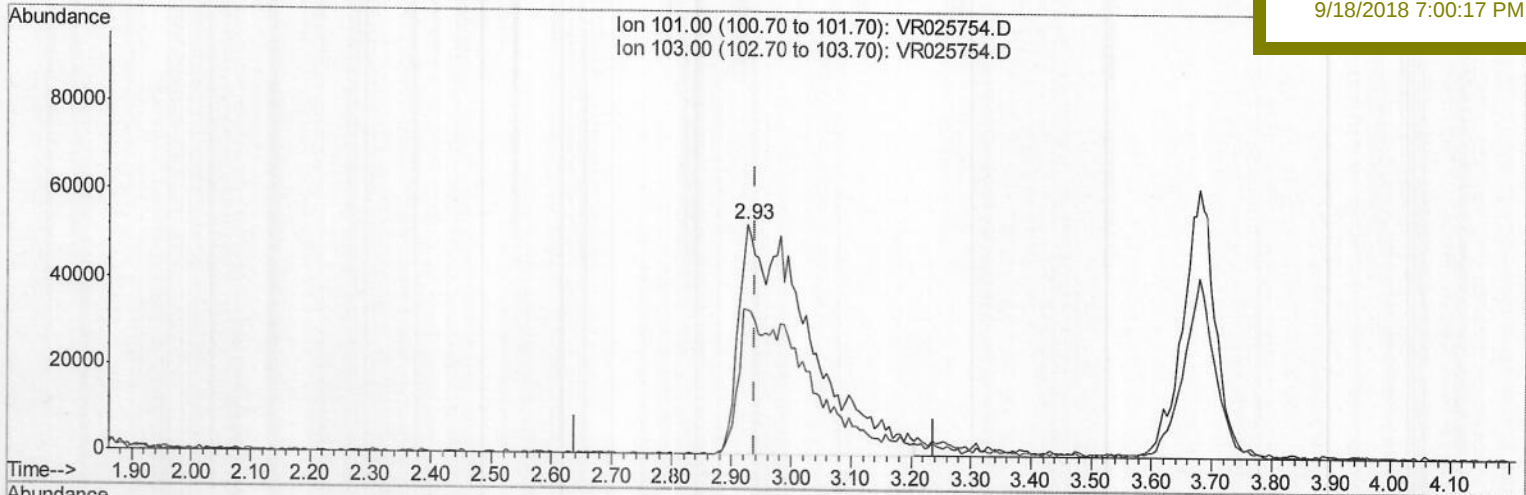
VSTD00506

Manual Integrations

APPROVED

MMDadoda

9/18/2018 7:00:17 PM



(9) Trichlorofluoromethane (T)

2.926min (-0.012) 4.71ug/L m) MD 09/19/18

response 430918

Ion	Exp%	Act%
101.00	100	100
103.00	16.90	19.73
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA R\Data\VR091718\

Data File : VR025754.D

Acq On : 17 Sep 2018 21:11

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25mL/MSVOA R/WATER

ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 18 09:02:55 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091718WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Sep 17 16:10:44 2018

Response via : Initial Calibration

Instrument :

MSVOA_R

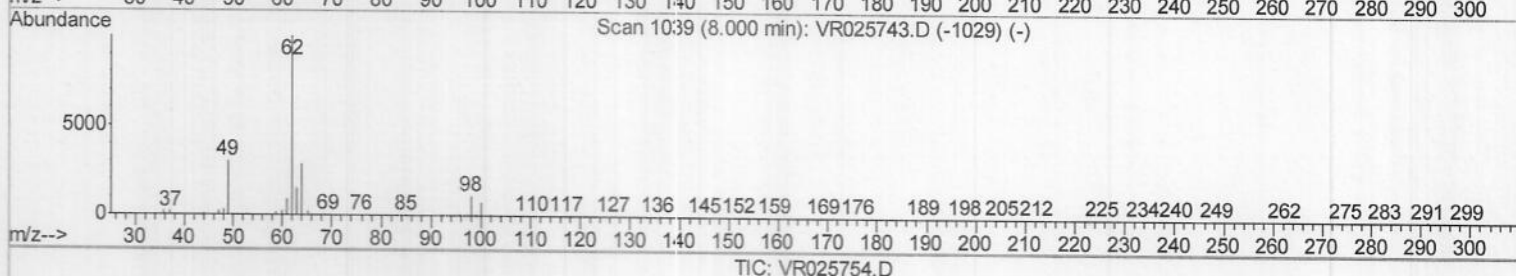
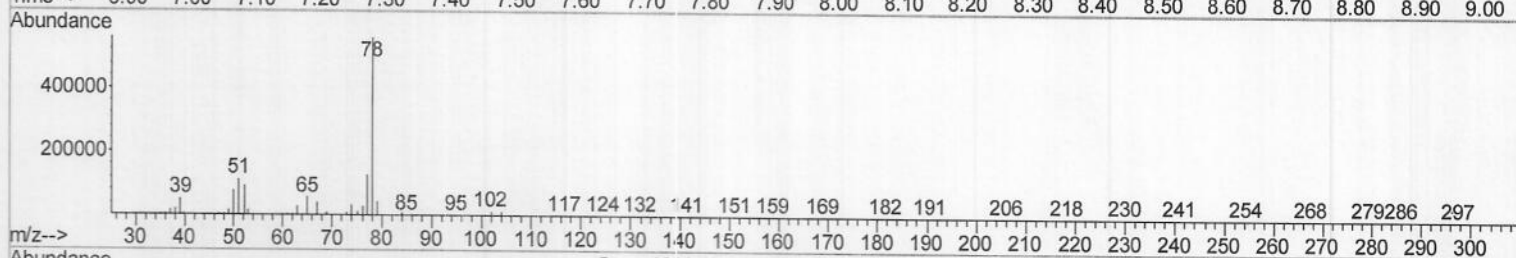
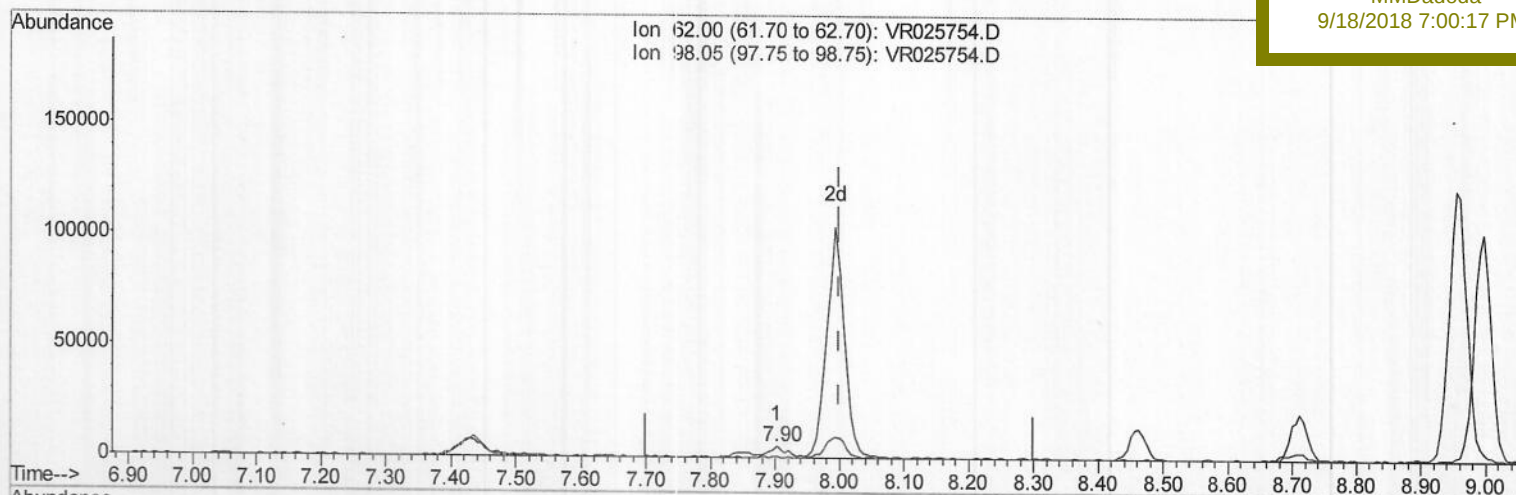
LabSampleId :

VSTD00506

Manual Integrations
APPROVED

MMDadoda

9/18/2018 7:00:17 PM



(27) 1,2-Dichloroethane (T)

7.903min (-0.097) 0.26ug/L

response 9601

Ion	Exp%	Act%
62.00	100	100
98.05	11.40	11.76
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA R\Data\VR091718\

Data File : VR025754.D

Acq On : 17 Sep 2018 21:11

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25mL/MSVOA R/WATER

ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 18 09:02:55 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091718WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Sep 17 16:10:44 2018

Response via : Initial Calibration

Instrument :

MSVOA_R

LabSampleId :

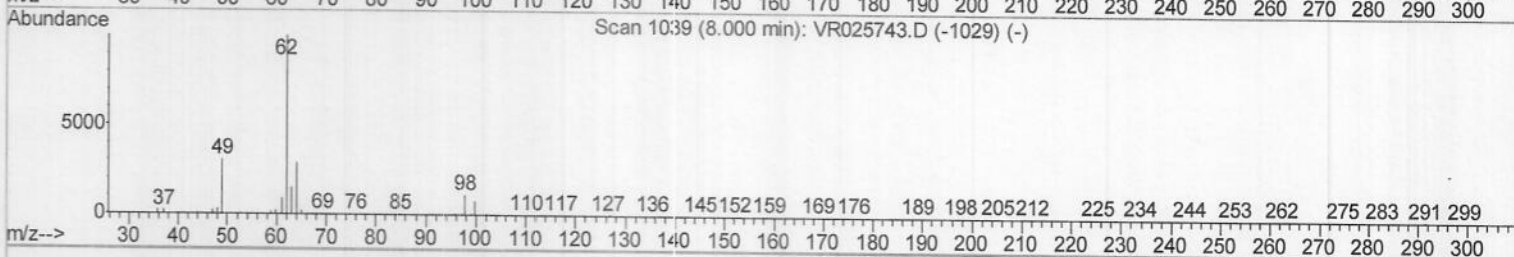
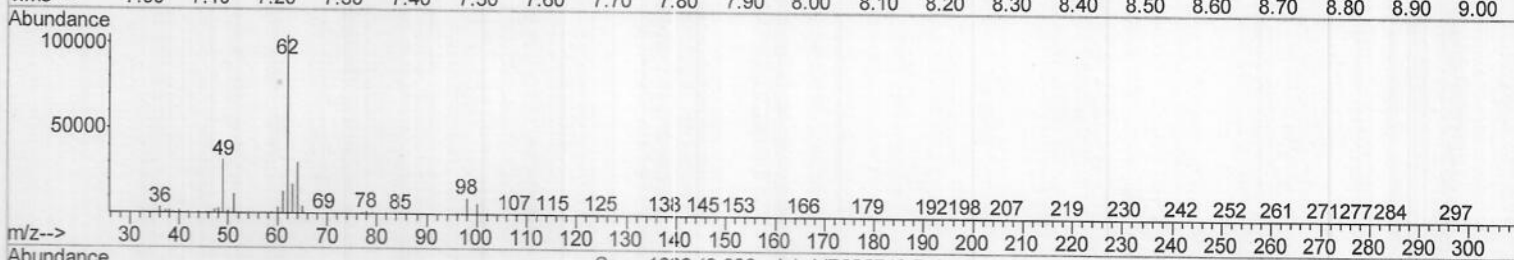
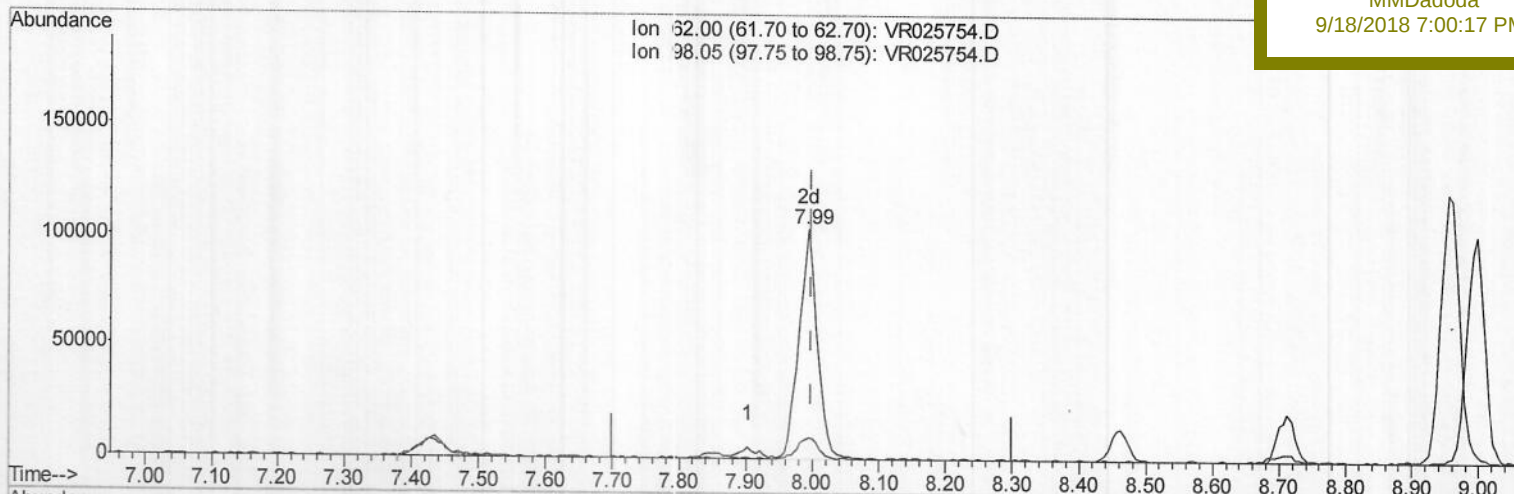
VSTD00506

Manual Integrations

APPROVED

MMDadoda

9/18/2018 7:00:17 PM



TIC: VR025754.D

(27) 1,2-Dichloroethane (T)

7.994min (-0.006) 5.37ug/L m) MDOq/19/11

response 197850

Ion	Exp%	Act%
62.00	100	100
98.05	11.40	9.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA R\Data\VR091718\

Data File : VR025754.D

Acq On : 17 Sep 2018 21:11

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25mL/MSVOA R/WATER

ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 18 09:03:48 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091718WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Sep 17 16:10:44 2018

Response via : Initial Calibration

Instrument :

MSVOA_R

LabSampleId :

VSTD00506

Manual Integrations

APPROVED

MMDadoda

9/18/2018 7:00:17 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	8.46	114	767485	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	665284	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	276490	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.16	65	159691	3.81	ug/L	0.00
Spiked Amount	5.000	Range	40 -- 130	Recovery	=	76.20%
7) Chloroethane-d5	2.63	69	132153	3.72	ug/L	0.00
Spiked Amount	5.000	Range	65 -- 130	Recovery	=	74.40%
11) 1,1-Dichloroethene-d2	3.63	63	451052	4.23	ug/L	0.00
Spiked Amount	5.000	Range	60 -- 125	Recovery	=	84.60%
20) 2-Butanone-d5	6.59	46	229405	69.19	ug/L	0.00
Spiked Amount	50.000	Range	40 -- 130	Recovery	=	138.38%#
24) Chloroform-d	7.20	84	437222	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 -- 125	Recovery	=	93.00%
26) 1,2-Dichloroethane-d4	7.90	65	161935	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 -- 130	Recovery	=	100.40%
32) Benzene-d6	7.85	84	1019251	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 -- 125	Recovery	=	97.40%
36) 1,2-Dichloropropane-d6	8.89	67	277443	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 -- 140	Recovery	=	100.20%
41) Toluene-d8	9.97	98	959999	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 -- 130	Recovery	=	100.80%
43) trans-1,3-Dichloropropene-	10.24	79	59551	4.68	ug/L	0.00
Spiked Amount	5.000	Range	55 -- 130	Recovery	=	93.60%
46) 2-Hexanone-d5	10.59	63	230185	64.63	ug/L	0.00
Spiked Amount	50.000	Range	45 -- 130	Recovery	=	129.26%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	129552	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 -- 120	Recovery	=	99.00%
64) 1,2-Dichlorobenzene-d4	13.52	152	208752	4.69	ug/L	0.00
Spiked Amount	5.000	Range	80 -- 120	Recovery	=	93.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	195326	4.58	ug/L 97
3) Chloromethane	2.01	50	204432	4.18	ug/L 97
5) Vinyl chloride	2.17	62	211594	4.28	ug/L 97
6) Bromomethane	2.52	94	151300	4.36	ug/L 95
8) Chloroethane	2.66	64	119195	3.93	ug/L 85
9) Trichlorofluoromethane	2.93	101	426266m)	4.66	ug/L
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	233645	4.60	ug/L 98
12) 1,1-Dichloroethene	3.66	96	222262	4.52	ug/L # 81
13) Acetone	3.70	43	173937	87.60	ug/L 87
14) Carbon disulfide	3.95	76	499888	4.25	ug/L 99
15) Methyl Acetate	4.20	43	43343	5.38	ug/L 95
16) Methylene chloride	4.40	84	194109	4.33	ug/L 92
17) Methyl tert-butyl Ether	4.89	73	311776	4.99	ug/L 100
18) trans-1,2-Dichloroethene	4.88	96	306878	4.96	ug/L 94
19) 1,1-Dichloroethane	5.69	63	480083	4.80	ug/L 96
21) 2-Butanone	6.69	43	352461	75.12	ug/L 99
22) cis-1,2-Dichloroethene	6.68	96	290998	5.38	ug/L # 91

JMD09/19/18

Data Path : Z:\voasrv\HPCHEM1\MSVOA R\Data\VR091718\
 Data File : VR025754.D
 Acq On : 17 Sep 2018 21:11
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_R
 LabSampleId :
 VSTD00506

Quant Time: Sep 18 09:03:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 17 16:10:44 2018
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMDadoda
 9/18/2018 7:00:17 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.05	128	91426	5.03	ug/L	93
25) Chloroform	7.23	83	443618	4.85	ug/L	99
27) 1,2-Dichloroethane	7.99	62	197850m)	5.37	ug/L	99
29) 1,1,1-Trichloroethane	7.43	97	338422	5.02	ug/L	99
30) Cyclohexane	7.52	56	465391	5.55	ug/L	98
31) Carbon tetrachloride	7.63	117	339731	5.02	ug/L	97
33) Benzene	7.91	78	1279378	5.19	ug/L	100
34) Trichloroethene	8.71	95	275253	4.71	ug/L	93
35) Methylcyclohexane	8.96	83	529798	5.75	ug/L	99
37) 1,2-Dichloropropane	9.00	63	284245	5.21	ug/L	98
38) Bromodichloromethane	9.28	83	252318	5.17	ug/L	90
39) cis-1,3-Dichloropropene	9.72	75	294395	5.54	ug/L	93
40) 4-Methyl-2-pentanone	9.87	43	876178	65.61	ug/L	98
42) Toluene	10.04	91	1336691	5.38	ug/L	97
44) trans-1,3-Dichloropropene	10.26	75	197758	5.31	ug/L	96
45) 1,1,2-Trichloroethane	10.45	97	130095	5.43	ug/L	96
47) Tetrachloroethene	10.51	164	226814	5.08	ug/L	96
48) 2-Hexanone	10.63	43	586152	60.52	ug/L	99
49) Dibromochloromethane	10.79	129	139503	5.23	ug/L	93
50) 1,2-Dibromoethane	10.89	107	104548	5.28	ug/L	99
51) Chlorobenzene	11.32	112	785469	5.14	ug/L	98
52) Ethylbenzene	11.39	91	1479869	5.41	ug/L	100
53) m,p-Xylene	11.50	106	569192	5.33	ug/L	99
54) o-Xylene	11.83	106	531615	5.71	ug/L	91
55) Styrene	11.84	104	843523	5.55	ug/L	99
56) Isopropylbenzene	12.13	105	1391280	5.64	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.39	83	131027	5.17	ug/L	91
59) 1,2,3-Trichloropropane	12.43	75	85860	4.98	ug/L	99
61) Bromoform	12.01	173	53501	4.58	ug/L	93
62) 1,3-Dichlorobenzene	13.16	146	431984	4.91	ug/L	94
63) 1,4-Dichlorobenzene	13.24	146	490626	4.87	ug/L	95
65) 1,2-Dichlorobenzene	13.53	146	381831	4.94	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.14	75	8756	4.02	ug/L #	82
67) 1,3,5-Trichlorobenzene	14.29	180	255709	4.85	ug/L	98
68) 1,2,4-trichlorobenzene	14.79	180	152068	4.87	ug/L	95
69) Naphthalene	15.00	128	170077	4.84	ug/L	100
70) 1,2,3-Trichlorobenzene	15.18	180	123622	5.13	ug/L	96

MD09/19/18

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