

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101913\
Quantitation Report (QT Reviewed)

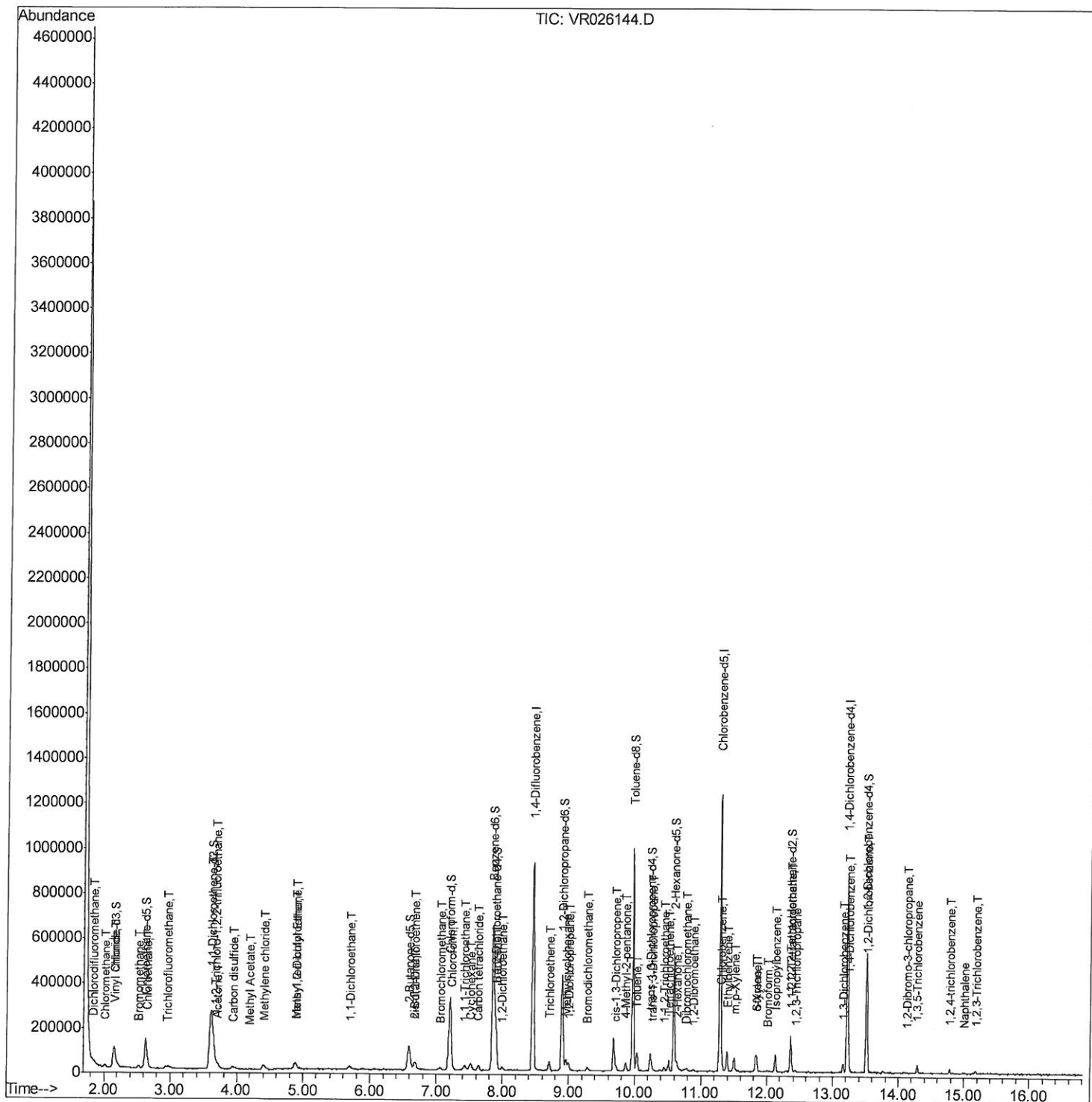
Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 02:05:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101918\
Quantitation Report (Qedit)

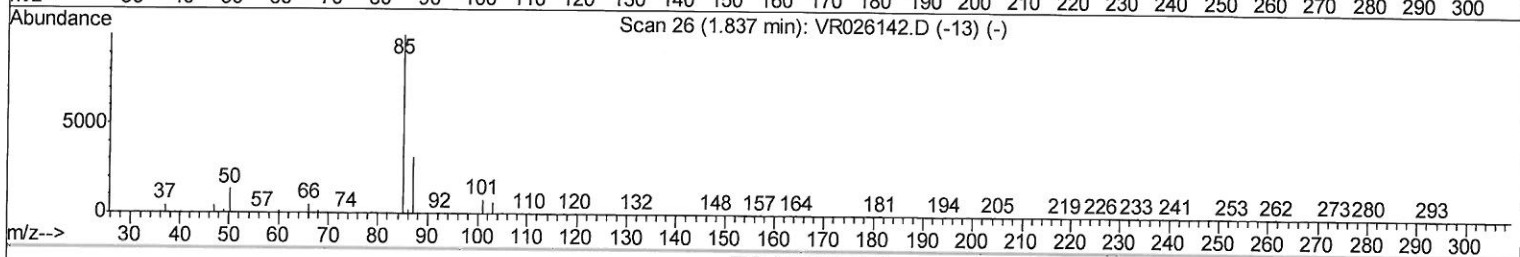
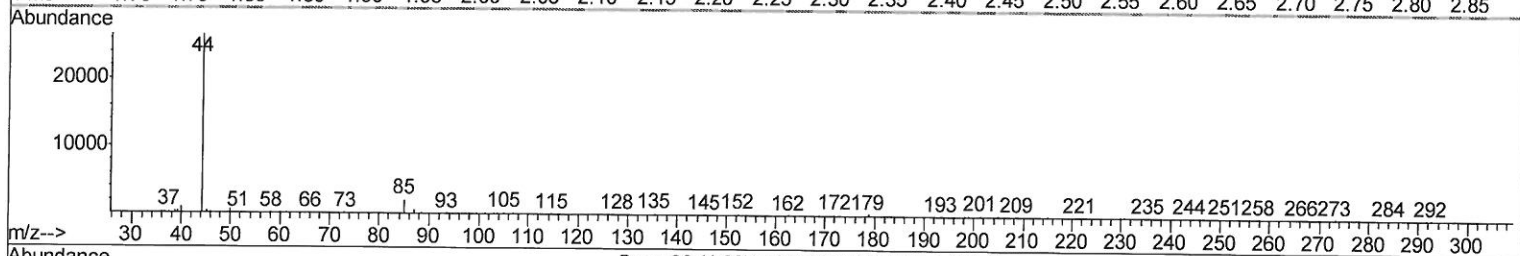
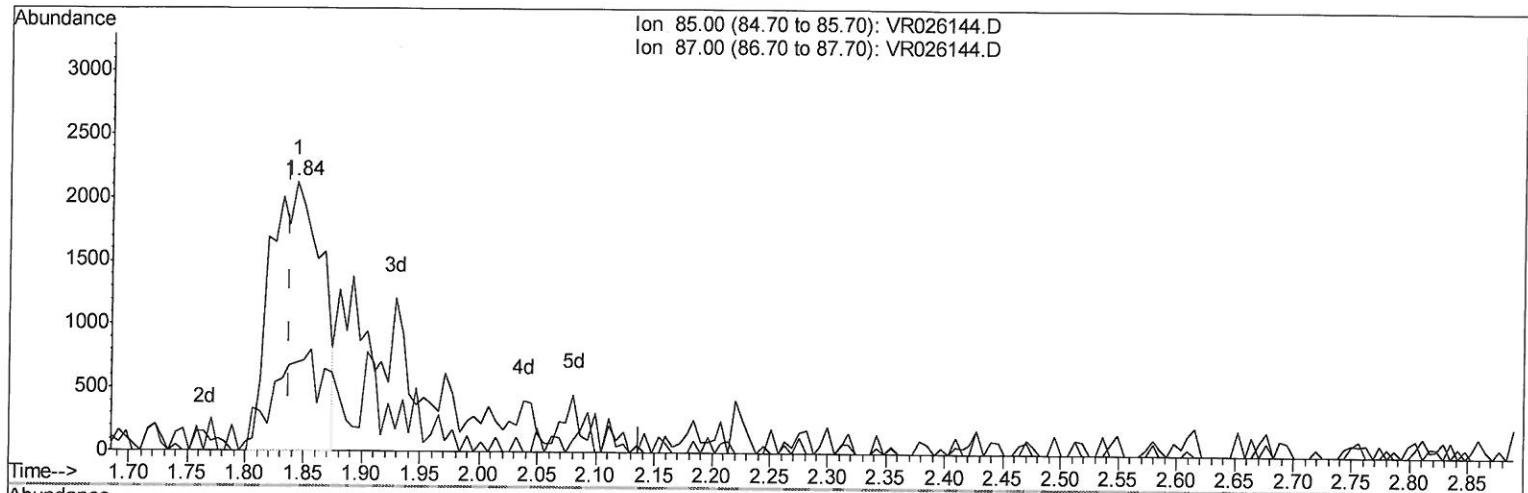
Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 01:56:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



TIC: VR026144.D

(2) Dichlorodifluoromethane (T)

1.843min (+0.006) 0.15ug/L

response 6396

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	29.82
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101918\
Quantitation Report (Qedit)

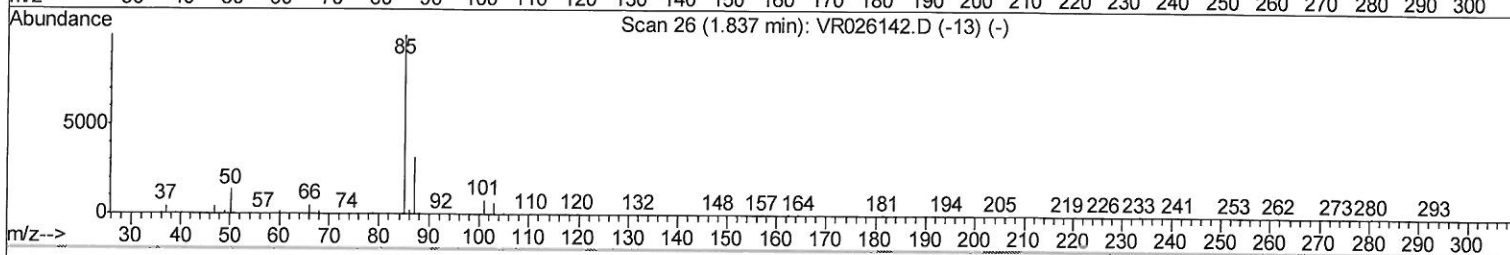
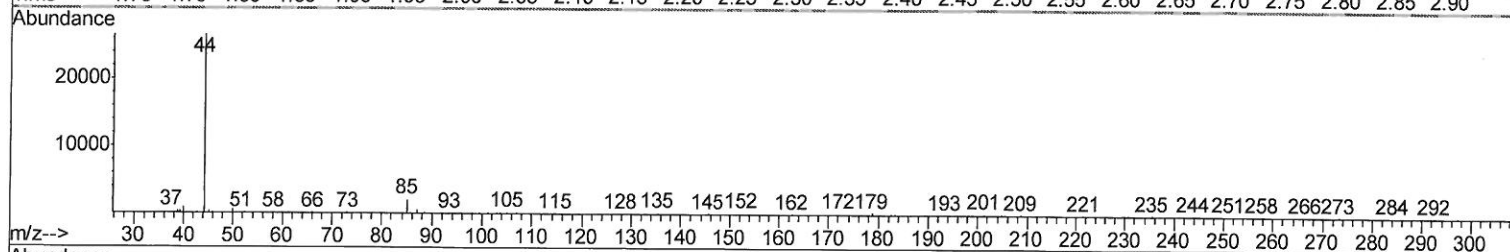
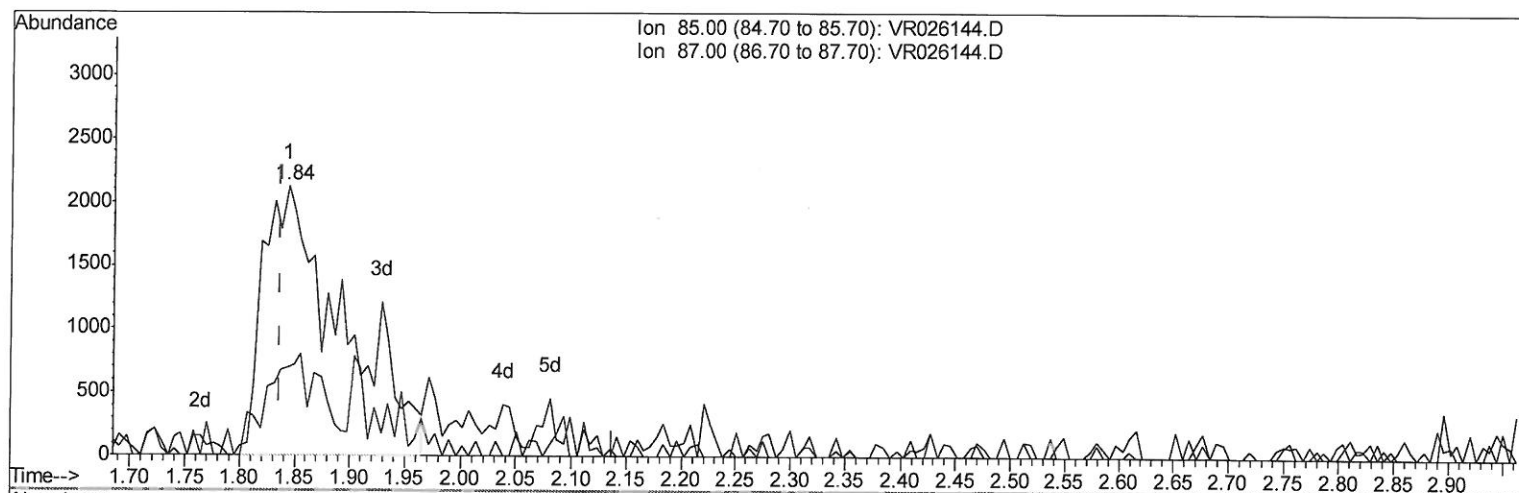
Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 01:56:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



TIC: VR026144.D

(2) Dichlorodifluoromethane (T)

1.843min (+0.006) 0.25ug/L m

10/23/18 57

response 10549

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	18.08#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101918\
Quantitation Report (Qedit)

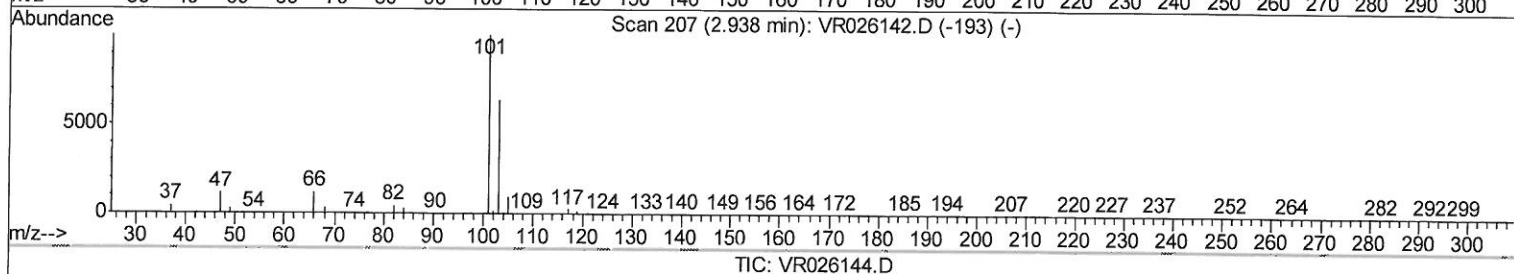
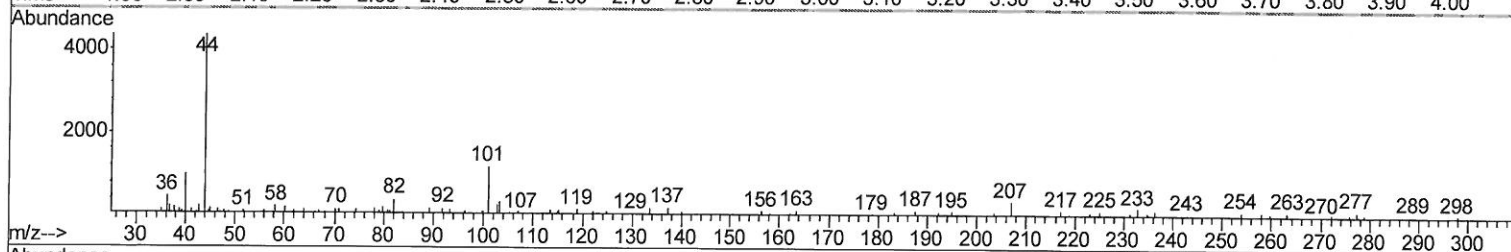
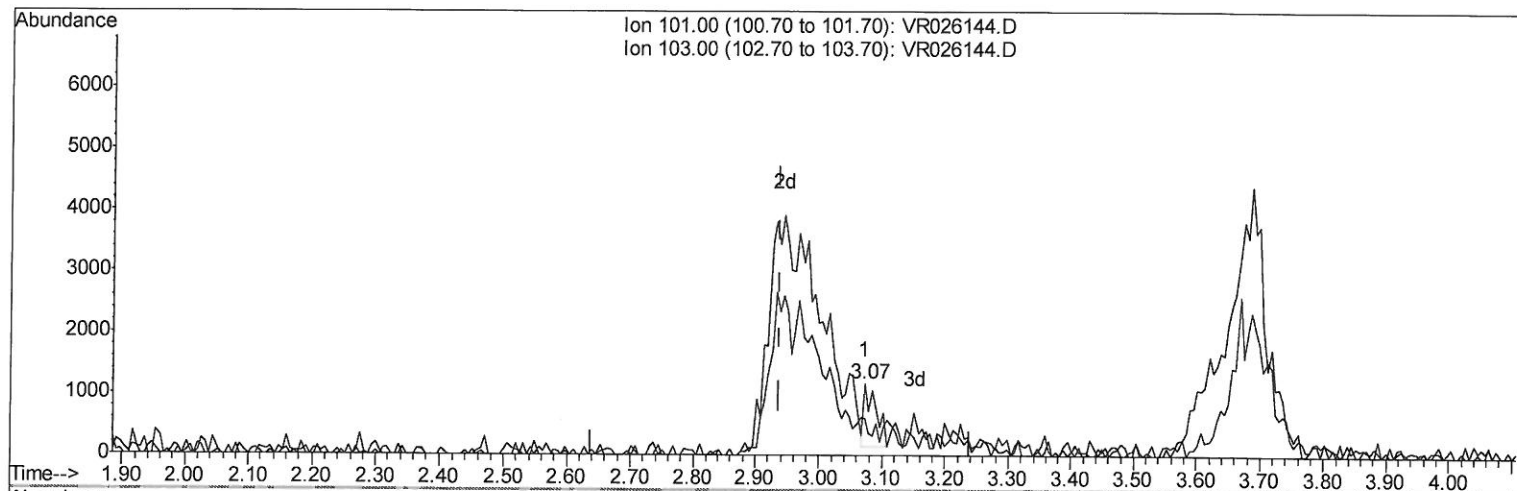
Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 01:56:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



(9) Trichlorofluoromethane (T)

3.072min (+0.134) 0.01ug/L

response 1453

Ion	Exp%	Act%
101.00	100	100
103.00	32.50	34.14
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101918\
Quantitation Report (Qedit)

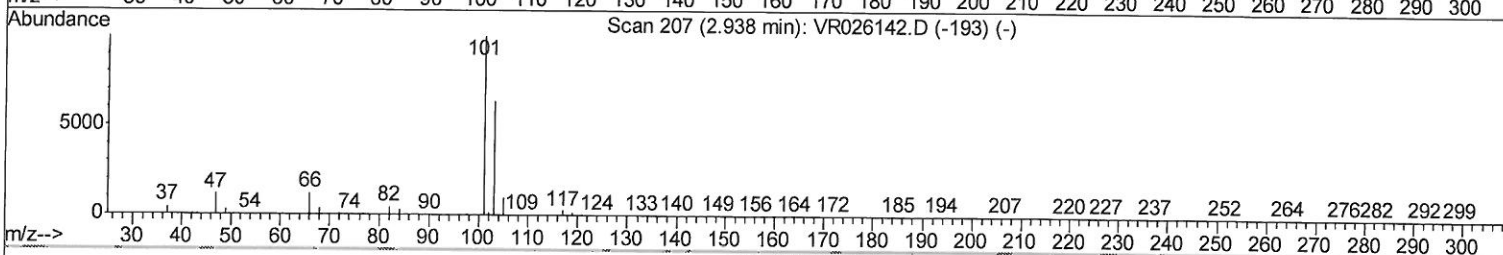
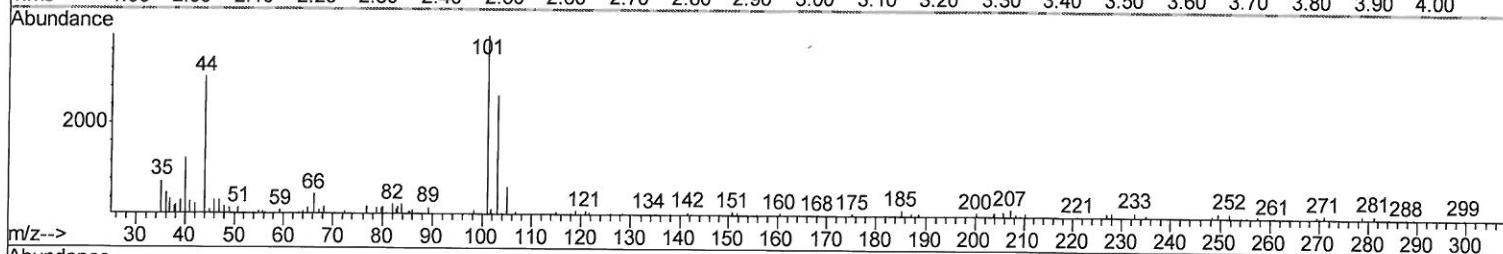
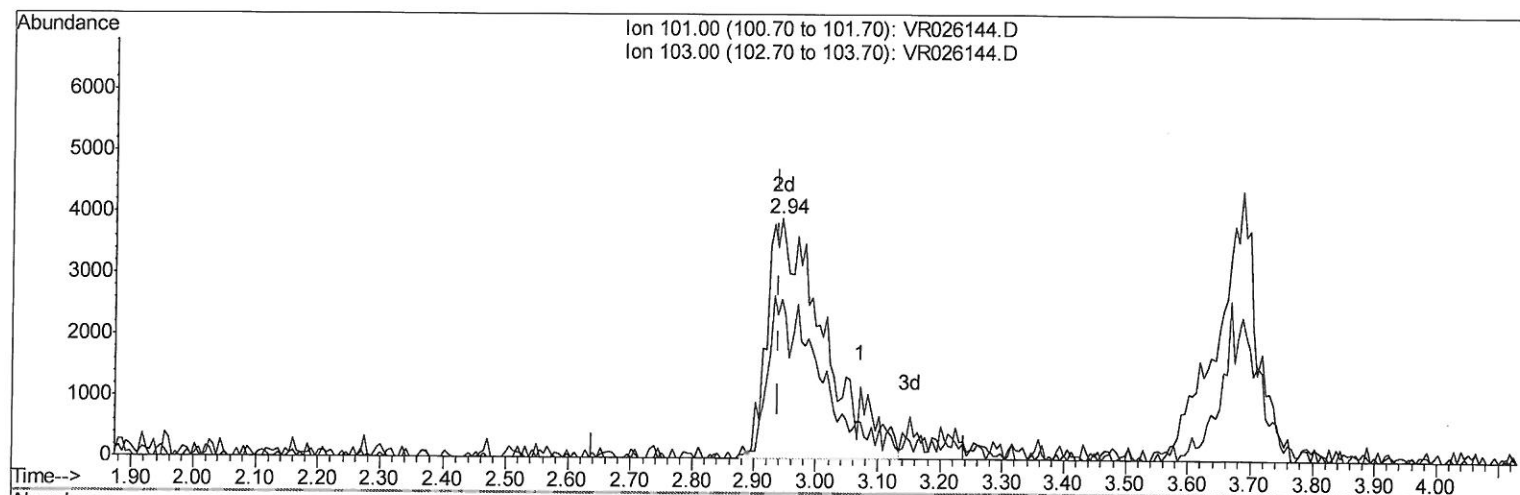
Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
Client Sampled :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 01:56:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



TIC: VR026144.D

(9) Trichlorofluoromethane (T)

2.944min (+0.006) 0.26ug/L m

> 10/23/18 87

response 25095

Ion	Exp%	Act%
101.00	100	100
103.00	32.50	1.98#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101918\
Quantitation Report (Qedit)

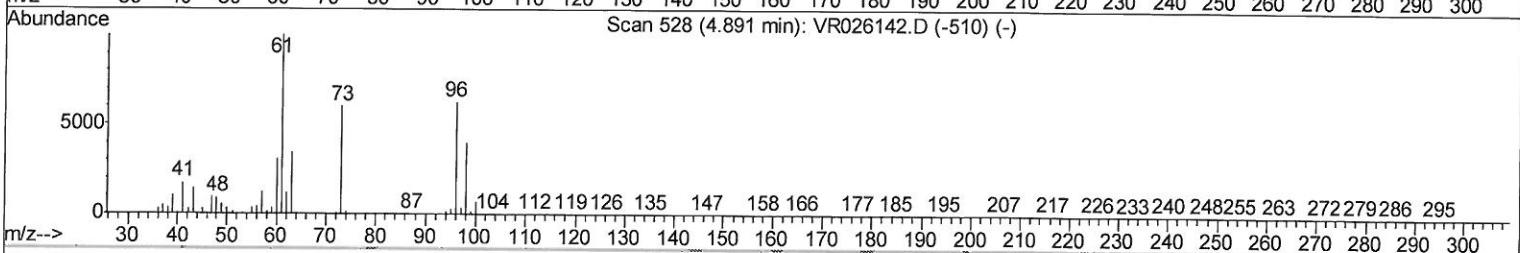
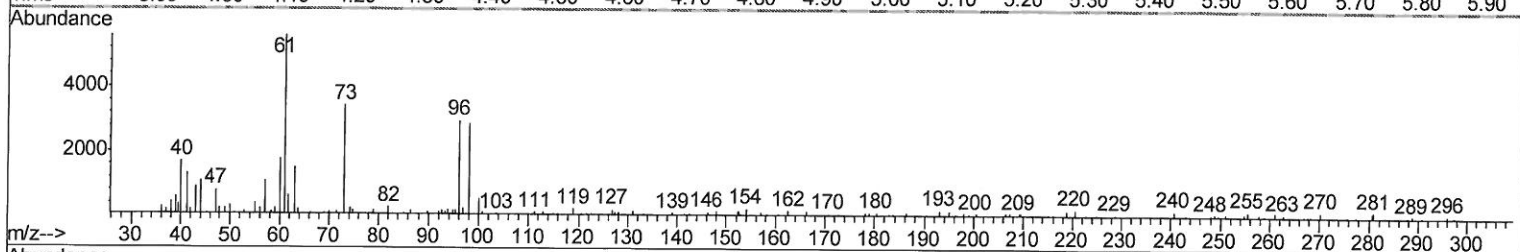
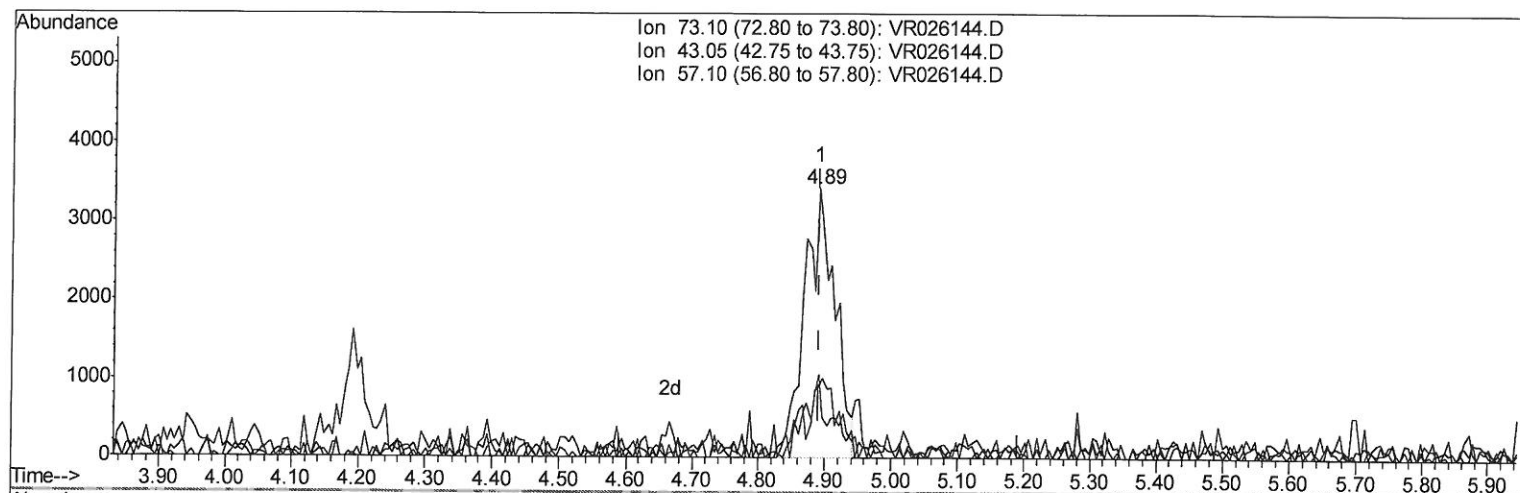
Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 01:56:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



TIC: VR026144.D

(17) Methyl tert-butyl Ether (T)

4.891min (+0.000) 0.19ug/L

response 10764

Ion	Exp%	Act%
73.10	100	100
43.05	25.10	23.08
57.10	23.70	19.17
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101918\
Quantitation Report (Qedit)

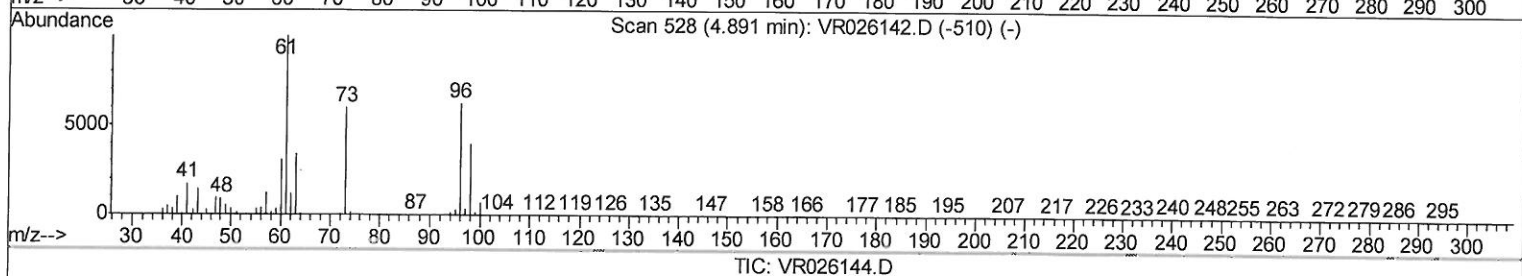
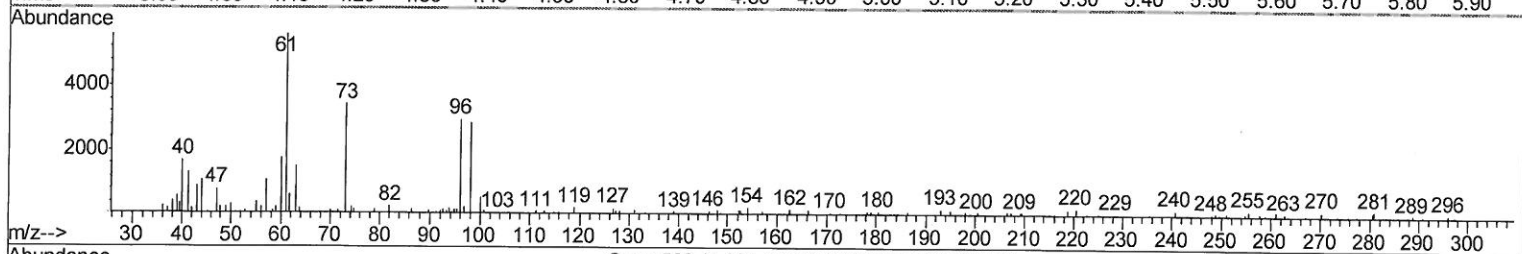
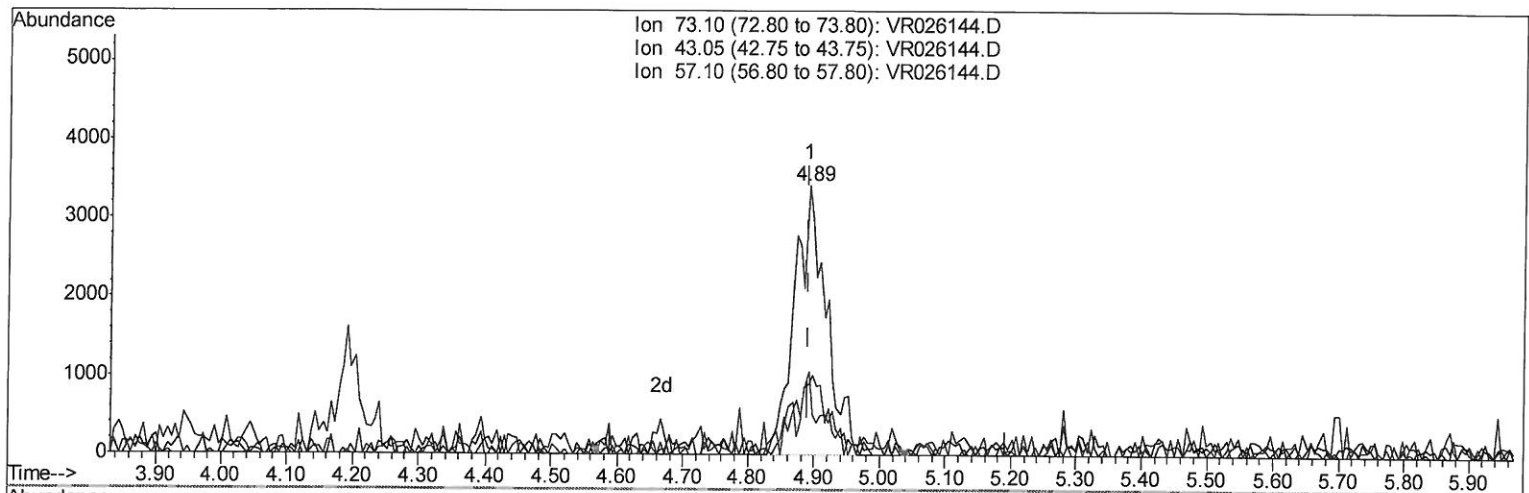
Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 01:56:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



(17) Methyl tert-butyl Ether (T)

4.891min (+0.000) 0.20ug/L m

response 11395

Ion	Exp%	Act%
73.10	100	100
43.05	25.10	21.80
57.10	23.70	18.10#
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101918\
Quantitation Report (QT Reviewed)

Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 02:05:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	634154	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	532955	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	170347	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	180875	3.26	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.20%
7) Chloroethane-d5	2.63	69	185716	3.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.80%
11) 1,1-Dichloroethene-d2	3.61	63	349190	2.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	51.20%#
20) 2-Butanone-d5	6.58	46	198844	43.64	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.28%
24) Chloroform-d	7.20	84	325863	3.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	73.80%
26) 1,2-Dichloroethane-d4	7.90	65	141024	3.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.80%
32) Benzene-d6	7.85	84	625640	3.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	73.00%
36) 1,2-Dichloropropane-d6	8.90	67	172237	3.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.80%
41) Toluene-d8	9.97	98	553969	3.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.60%#
43) trans-1,3-Dichloropropene-	10.23	79	36109	3.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	62.20%
46) 2-Hexanone-d5	10.59	63	151142	45.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.26%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	69728	4.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.40%
64) 1,2-Dichlorobenzene-d4	13.52	152	105257	3.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	78.20%#

Target Compounds

				Qvalue	
2) Dichlorodifluoromethane	1.84	85	10549m	0.248	ug/L
3) Chloromethane	2.01	50	17432	0.258	ug/L
5) Vinyl chloride	2.15	62	19127	0.284	ug/L
6) Bromomethane	2.52	94	11312	0.254	ug/L
8) Chloroethane	2.66	64	11365	0.272	ug/L
9) Trichlorofluoromethane	2.94	101	25095m	0.258	ug/L
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	19440	0.335	ug/L #
12) 1,1-Dichloroethene	3.62	96	19607	0.318	ug/L #
13) Acetone	3.70	43	14408	3.059	ug/L
14) Carbon disulfide	3.94	76	32179	0.200	ug/L #
15) Methyl Acetate	4.19	43	3077	0.250	ug/L #
16) Methylene chloride	4.41	84	17064	0.305	ug/L
17) Methyl tert-butyl Ether	4.89	73	11395m	0.204	ug/L
18) trans-1,2-Dichloroethene	4.89	96	10482	0.225	ug/L #
19) 1,1-Dichloroethane	5.69	63	22693	0.259	ug/L
21) 2-Butanone	6.68	43	13426	2.471	ug/L
22) cis-1,2-Dichloroethene	6.67	96	11712	0.265	ug/L #

10/23/18 SY

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR101918\
Quantitation Report (QT Reviewed)

Data File : VR026144.D
Acq On : 19 Oct 2018 11:51
Operator : SY/MD
Sample : MDL 0.25 PPB
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL 0.25 PPB

Manual Integrations
APPROVED

MMDadoda
10/24/2018 11:51:49 AM

Quant Time: Oct 20 02:05:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.06	128	3048	0.246	ug/L #	85
25) Chloroform	7.23	83	22734	0.266	ug/L	97
27) 1,2-Dichloroethane	7.99	62	10607	0.254	ug/L	96
29) 1,1,1-Trichloroethane	7.42	97	17417	0.239	ug/L	93
30) Cyclohexane	7.52	56	12846	0.176	ug/L	94
31) Carbon tetrachloride	7.63	117	16112	0.243	ug/L	99
33) Benzene	7.91	78	55010	0.275	ug/L	100
34) Trichloroethene	8.71	95	11710	0.229	ug/L #	78
35) Methylcyclohexane	8.96	83	16425	0.216	ug/L	95
37) 1,2-Dichloropropane	8.99	63	11131	0.264	ug/L	100
38) Bromodichloromethane	9.28	83	9988	0.220	ug/L	82
39) cis-1,3-Dichloropropene	9.72	75	9527	0.197	ug/L	86
40) 4-Methyl-2-pentanone	9.87	43	26380	2.047	ug/L #	86
42) Toluene	10.03	91	49380	0.234	ug/L	96
44) trans-1,3-Dichloropropene	10.26	75	8865	0.263	ug/L	98
45) 1,1,2-Trichloroethane	10.45	97	5158	0.290	ug/L #	70
47) Tetrachloroethene	10.51	164	7428	0.203	ug/L	90
48) 2-Hexanone	10.63	43	20928	2.487	ug/L	98
49) Dibromochloromethane	10.79	129	3909	0.195	ug/L	97
50) 1,2-Dibromoethane	10.89	107	3982	0.259	ug/L #	76
51) Chlorobenzene	11.32	112	26623	0.228	ug/L	94
52) Ethylbenzene	11.39	91	52097	0.215	ug/L	97
53) m,p-Xylene	11.50	106	17094	0.193	ug/L	97
54) o-Xylene	11.83	106	12780	0.158	ug/L	99
55) Styrene	11.84	104	19357	0.155	ug/L	93
56) Isopropylbenzene	12.13	105	38315	0.170	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.38	83	4365	0.241	ug/L #	87
59) 1,2,3-Trichloropropane	12.44	75	3663	0.276	ug/L	95
61) Bromoform	12.01	173	1658	0.280	ug/L	94
62) 1,3-Dichlorobenzene	13.16	146	12108	0.214	ug/L	89
63) 1,4-Dichlorobenzene	13.24	146	14637	0.250	ug/L	96
65) 1,2-Dichlorobenzene	13.53	146	12763	0.281	ug/L #	80
66) 1,2-Dibromo-3-chloropropan	14.14	75	1162	0.628	ug/L #	35
67) 1,3,5-Trichlorobenzene	14.29	180	8855	0.257	ug/L	88
68) 1,2,4-trichlorobenzene	14.78	180	4656	0.231	ug/L	92
69) Naphthalene	15.01	128	3213	0.164	ug/L #	77
70) 1,2,3-Trichlorobenzene	15.18	180	3218	0.230	ug/L	95

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