

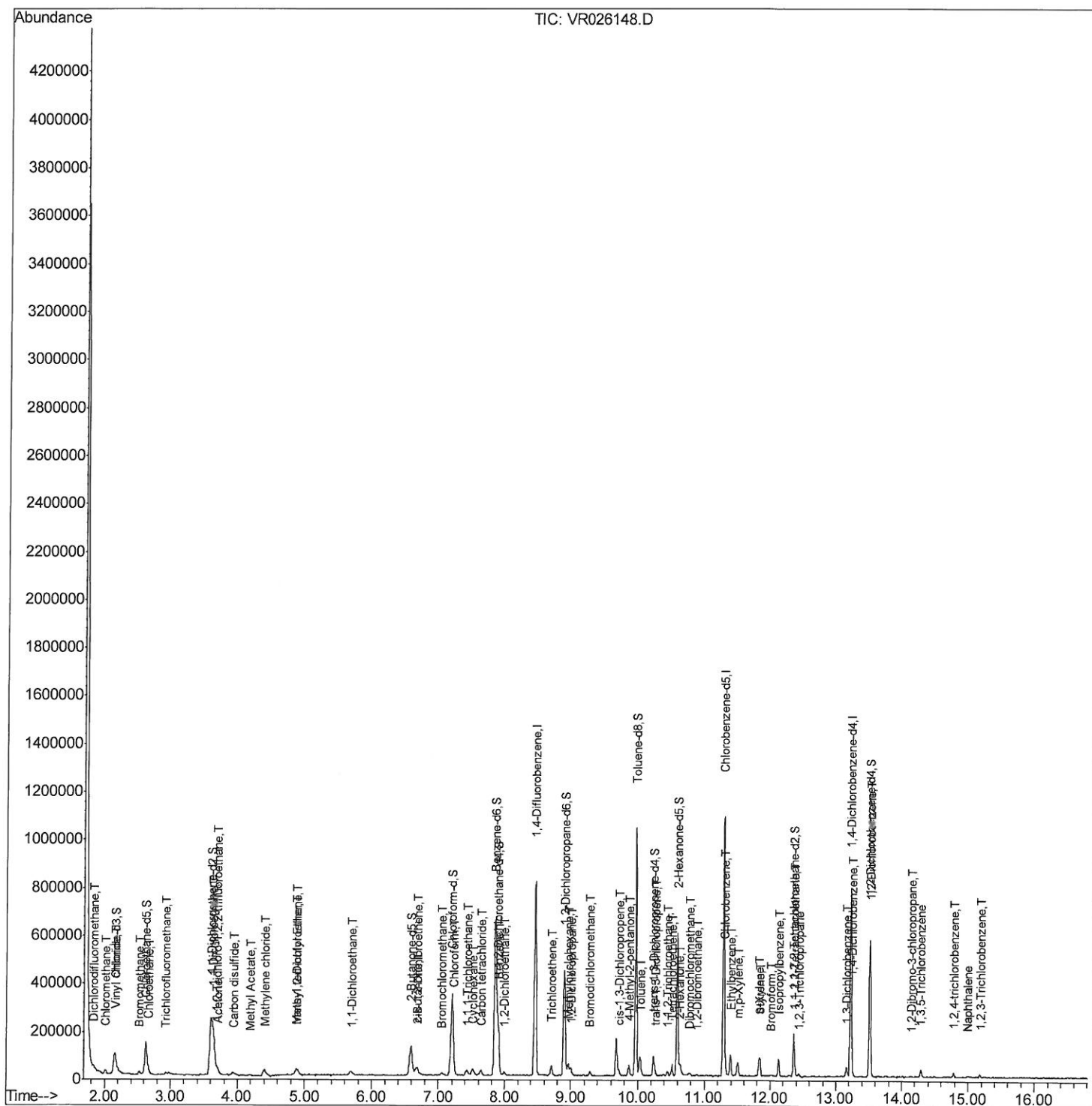
Data File : VR026148.D
Acq On : 19 Oct 2018 14:04
Operator : SY/MD
Sample : MDL
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL

Manual Integrations

MMDadoda
10/24/2018 12:17:23 PM

Quant Time: Oct 20 02:18:46 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)

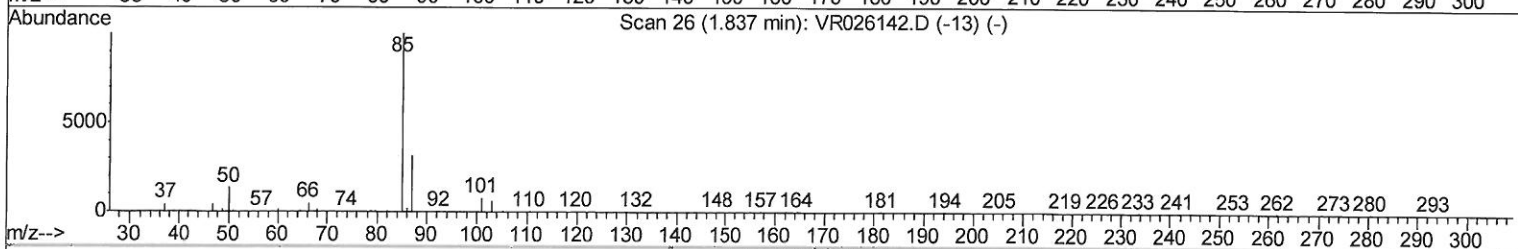
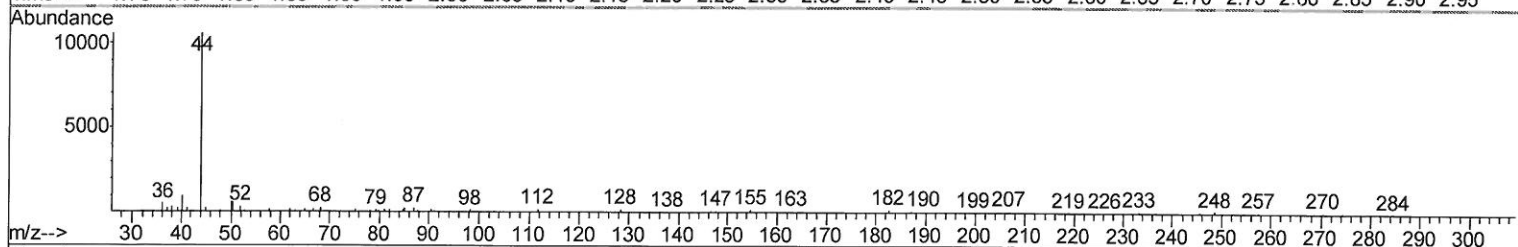
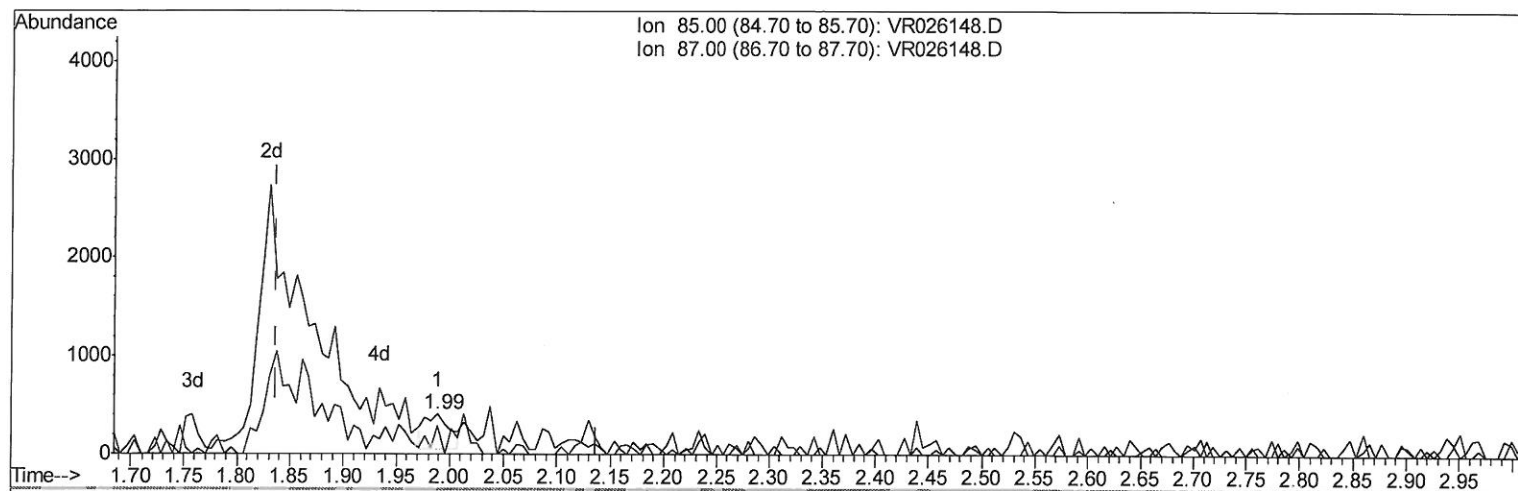
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Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:23 PM

Quant Time: Oct 20 01:58:34 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: VR026148.D

(2) Dichlorodifluoromethane (T)

1.989min (+0.152) 0.02ug/L

response 577

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	33.62
0.00	0.00	0.00
0.00	0.00	0.00

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

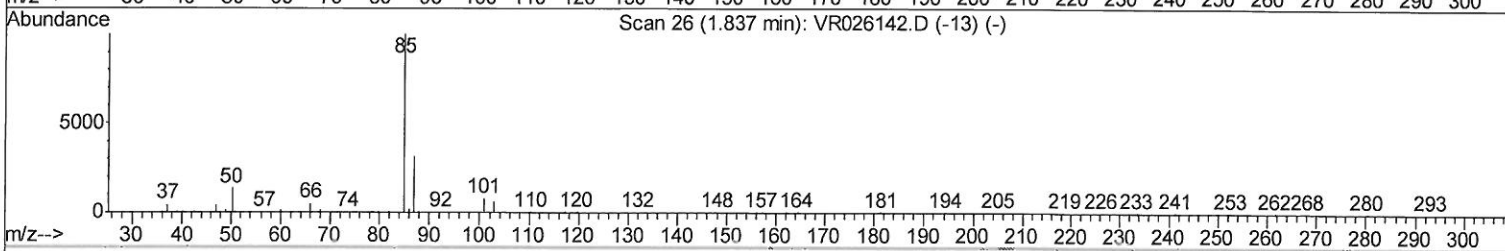
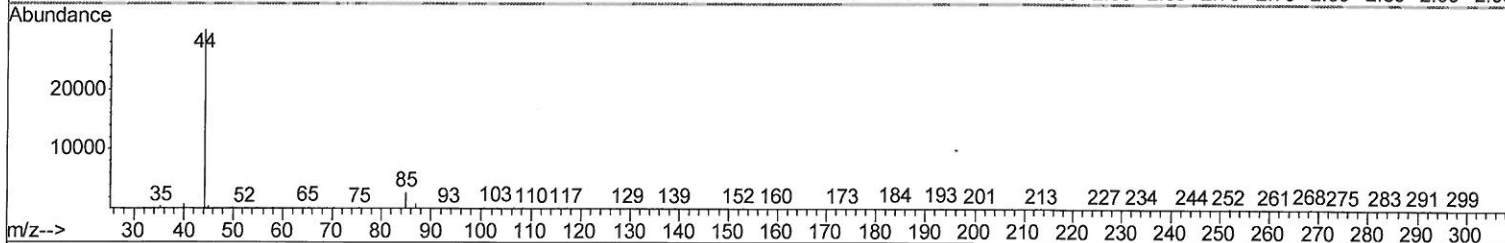
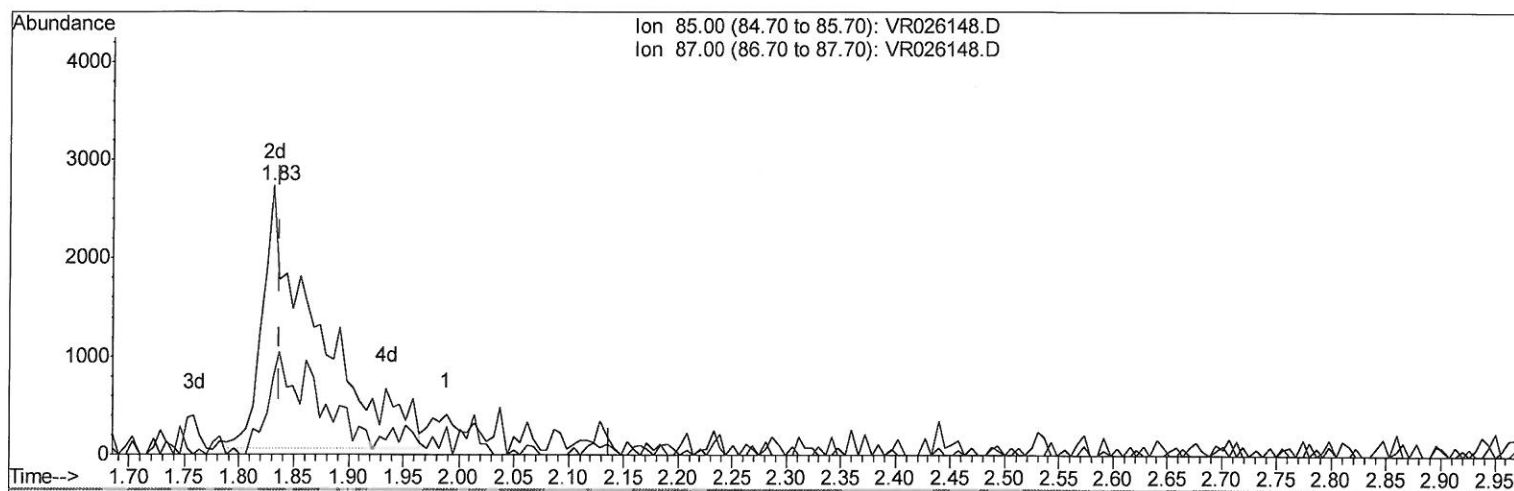
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Manual Integrations
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Quant Time: Oct 20 01:58:34 2018
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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



TIC: VR026148.D

(2) Dichlorodifluoromethane (T)

1.831min (-0.006) 0.25ug/L m > 10/23/18 sy

response 9429

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	2.06#
0.00	0.00	0.00
0.00	0.00	0.00

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

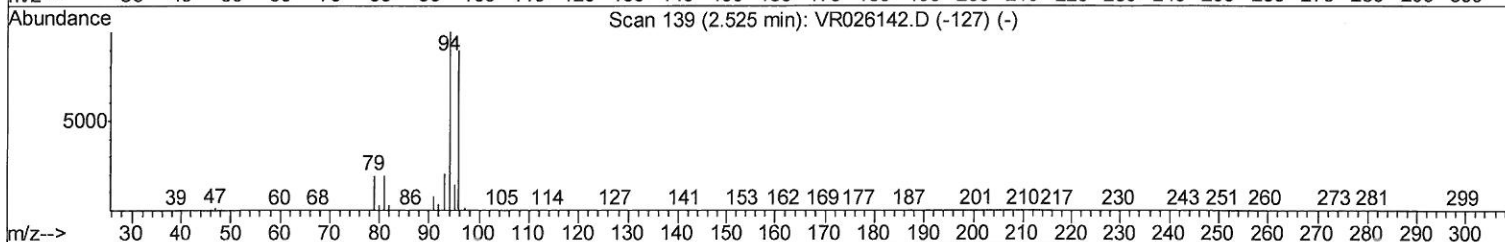
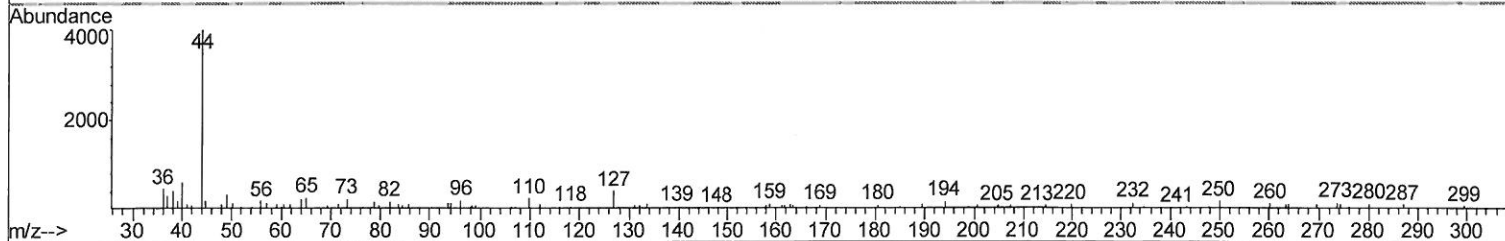
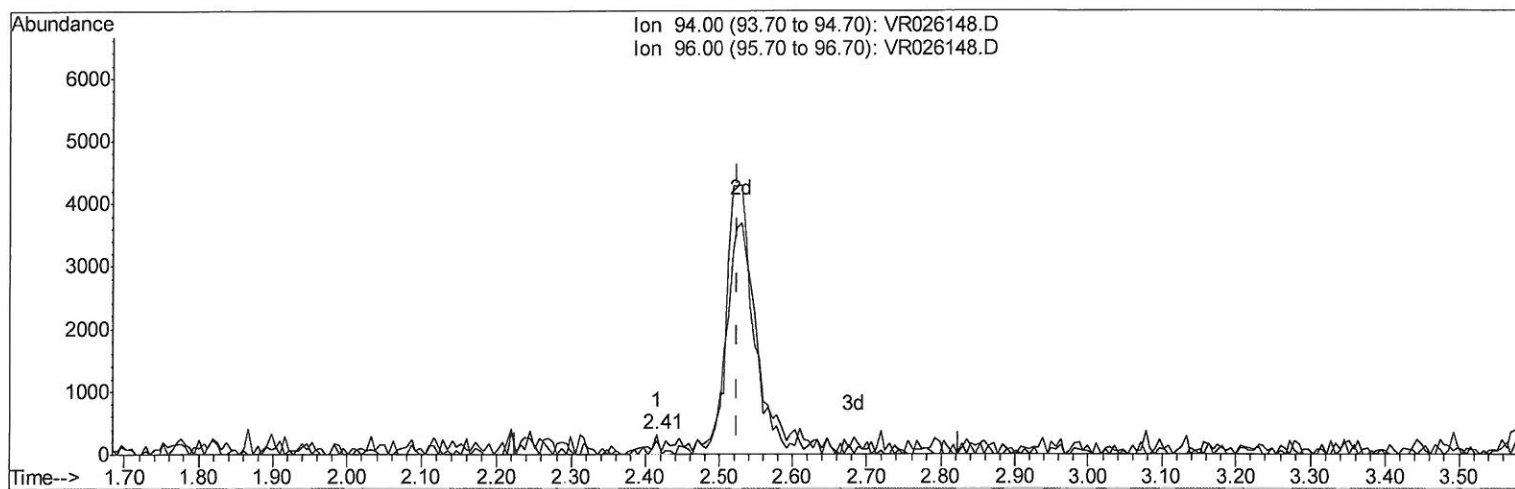
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Sample : MDL
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ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL

Manual Integrations
APPROVED

MMDadoda
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Quant Time: Oct 20 01:58:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration



TIC: VR026148.D

(6) Bromomethane (T)

2.415min (-0.110) 0.01ug/L

response 347

Ion	Exp%	Act%
94.00	100	100
96.00	89.30	67.18
0.00	0.00	0.00
0.00	0.00	0.00

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

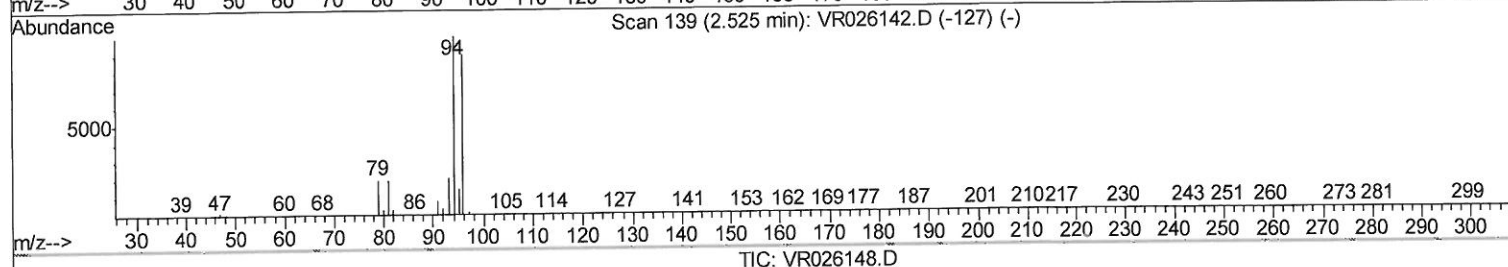
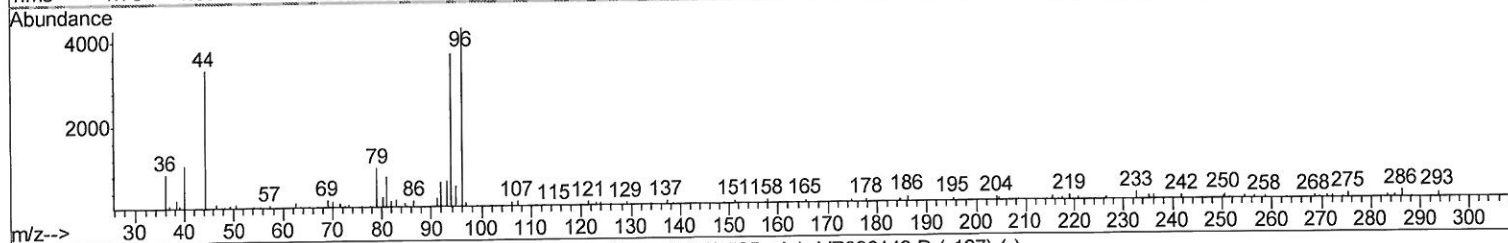
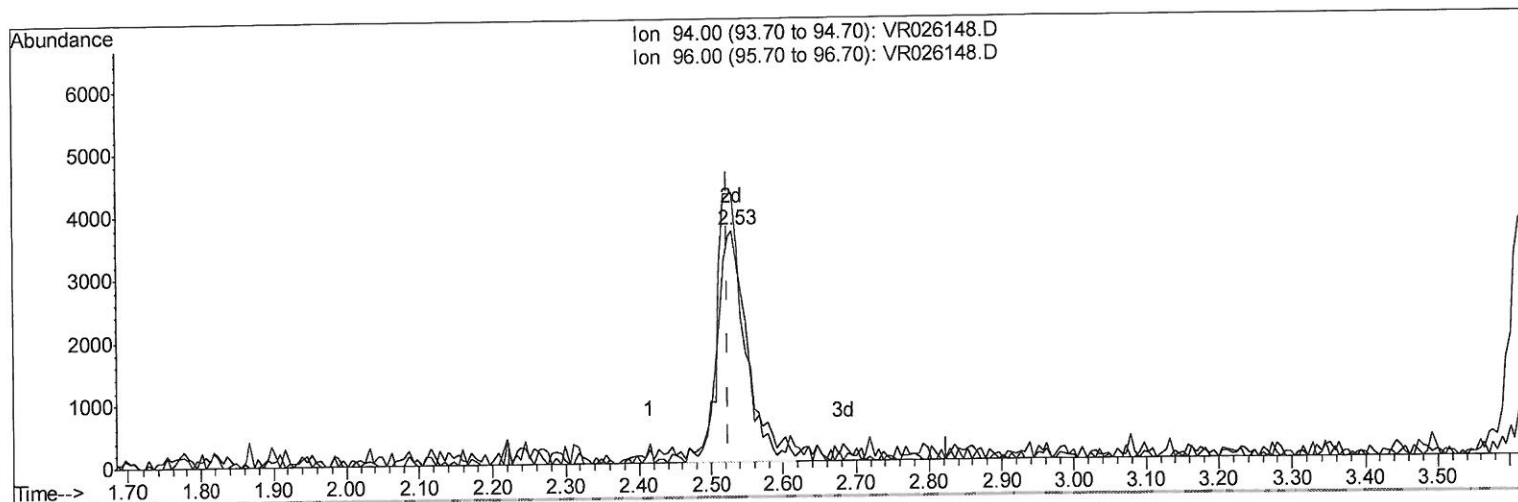
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Manual Integrations
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Response via : Initial Calibration



(6) Bromomethane (T)

2.531min (+0.006) 0.28ug/L m> 10/23/18 sy

response 11007

Ion	Exp%	Act%
94.00	100	100
96.00	89.30	116.16#
0.00	0.00	0.00
0.00	0.00	0.00

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

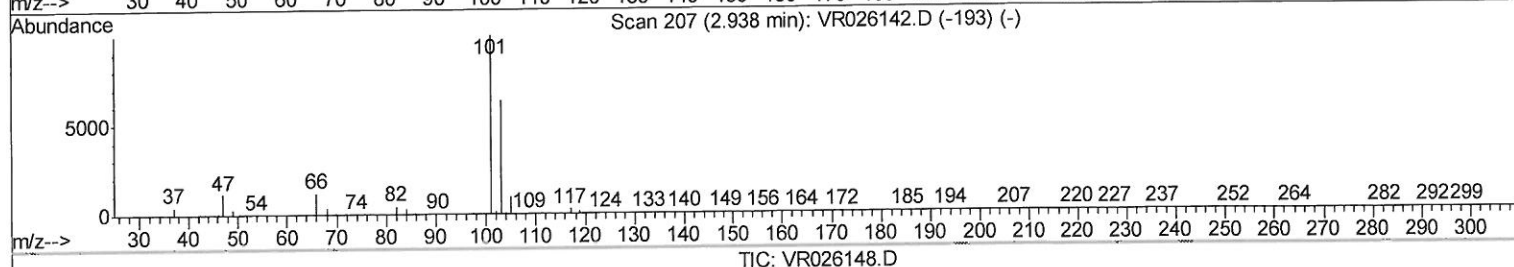
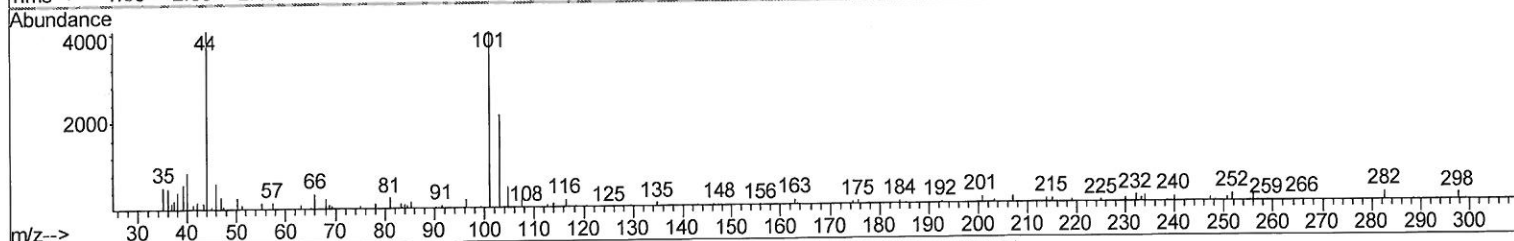
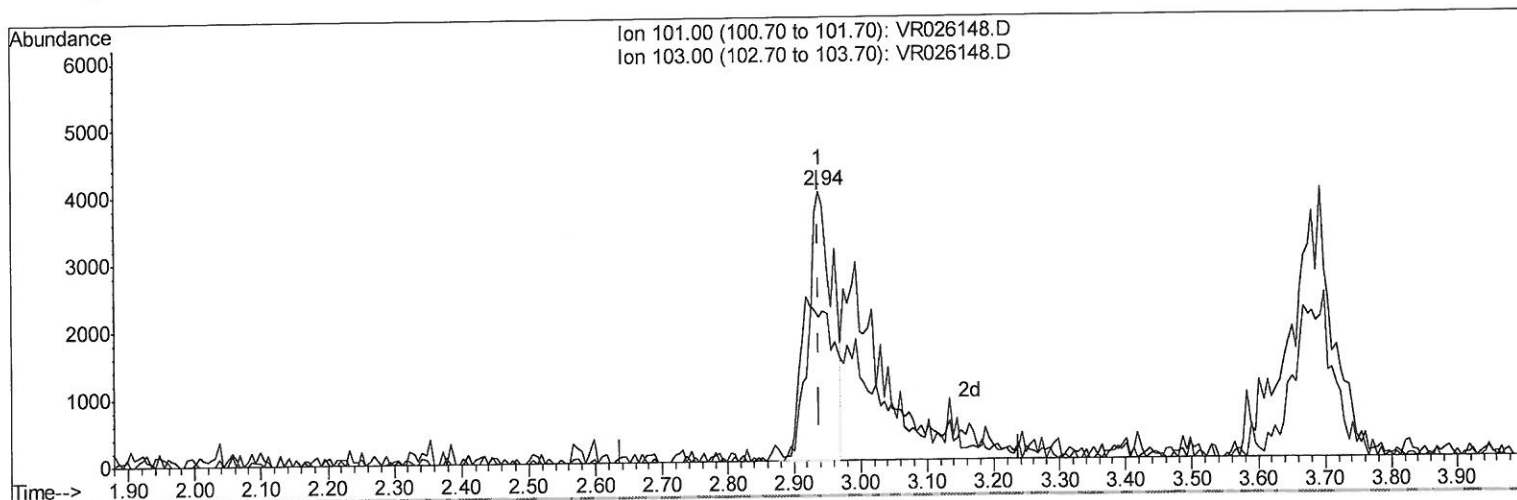
Data File : VR026148.D
Acq On : 19 Oct 2018 14:04
Operator : SY/MD
Sample : MDL
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampled :
MDL

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:23 PM

Quant Time: Oct 20 01:58:34 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)

2.938min (-0.000) 0.13ug/L

response 10923

Ion	Exp%	Act%
101.00	100	100
103.00	32.50	67.28#
0.00	0.00	0.00
0.00	0.00	0.00

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

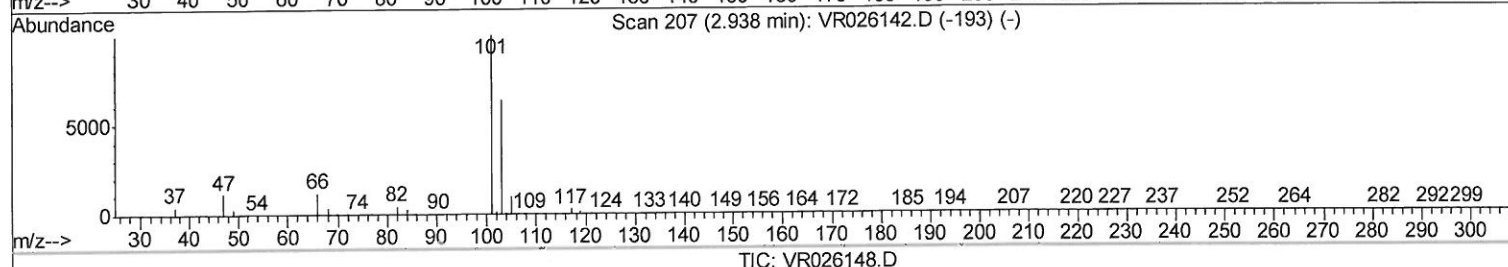
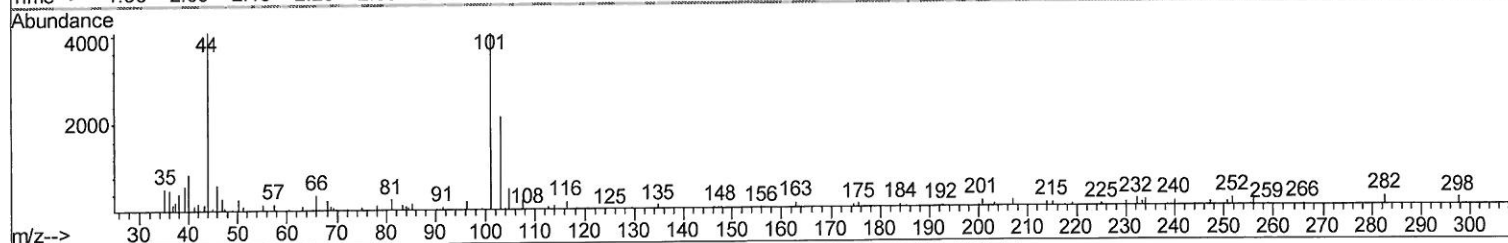
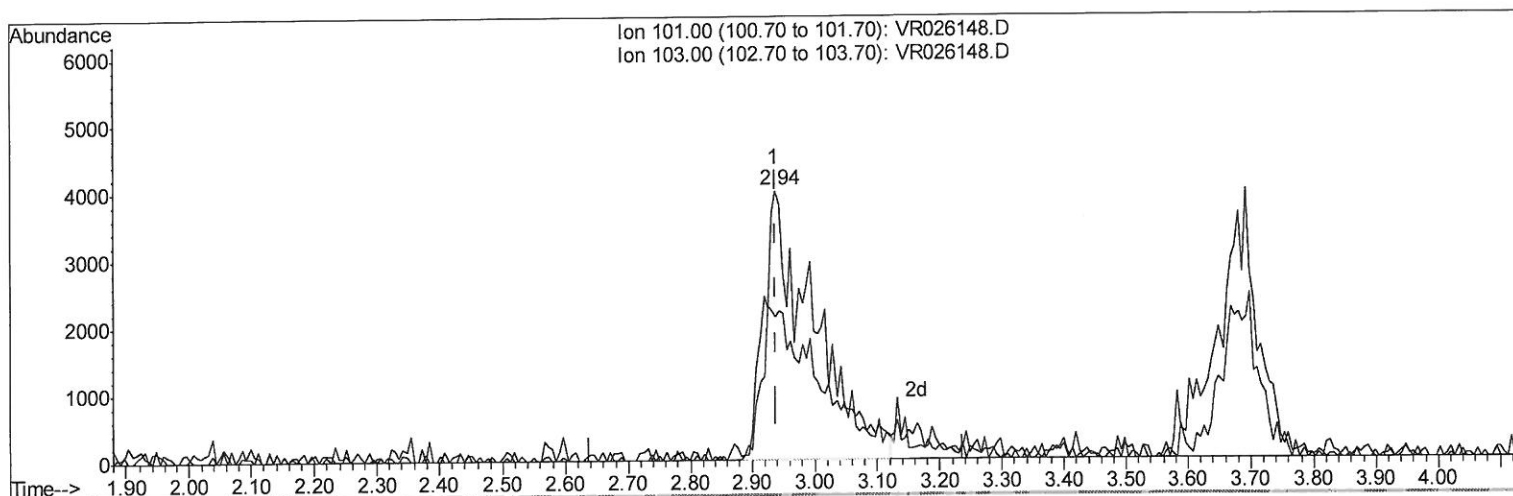
Data File : VR026148.D
Acq On : 19 Oct 2018 14:04
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ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampled :
MDL

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:23 PM

Quant Time: Oct 20 01:58:34 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: VR026148.D

(9) Trichlorofluoromethane (T)

2.938min (-0.000) 0.26ug/L m 51612316584

response 22155

Ion	Exp%	Act%
101.00	100	100
103.00	32.50	33.17
0.00	0.00	0.00
0.00	0.00	0.00

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

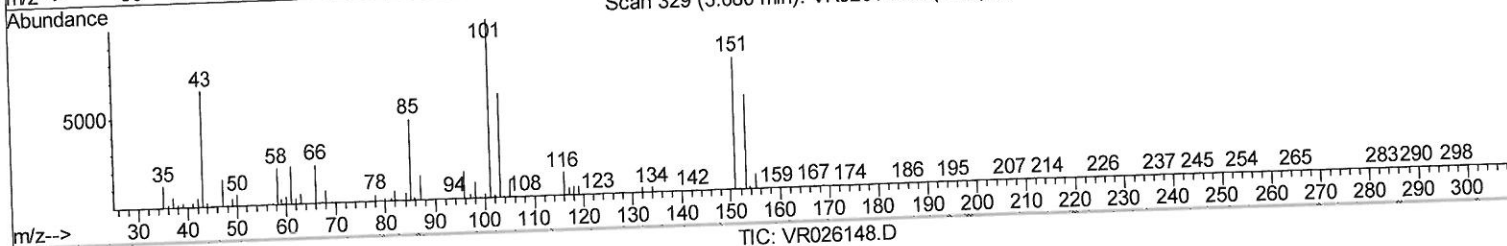
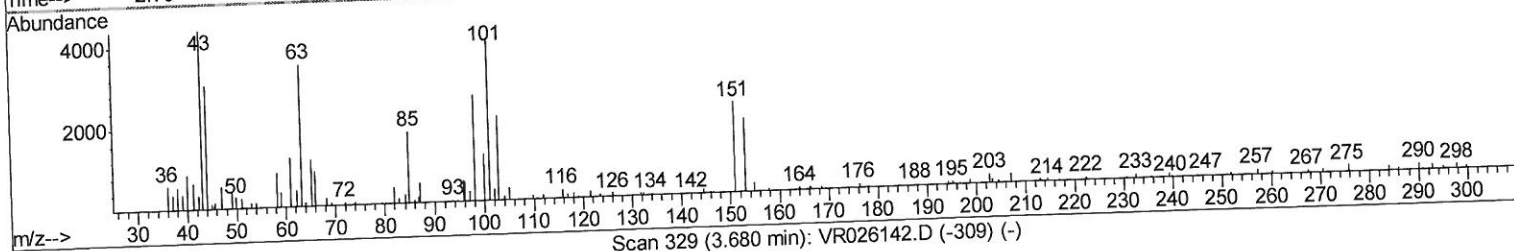
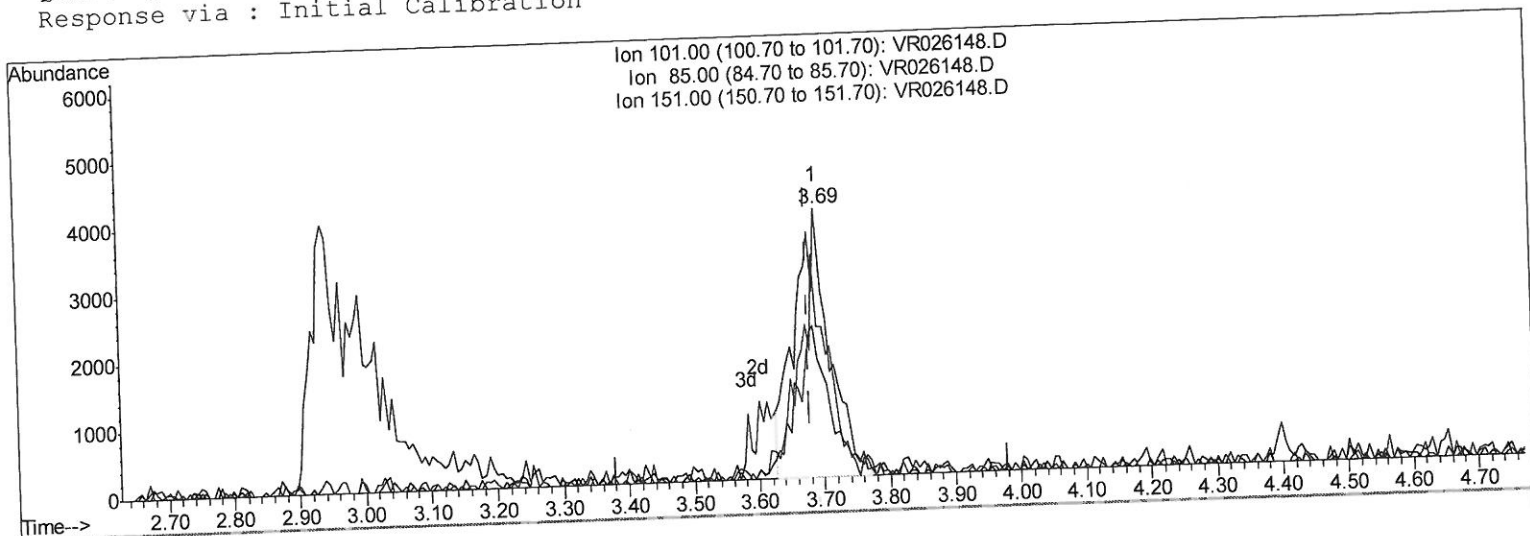
Data File : VR026148.D
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ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL

Manual Integrations
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MMDadoda
10/24/2018 12:17:23 PM

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QLast Update : Sat Oct 20 01:53:32 2018
Response via : Initial Calibration



(10) 1,1,2-Trichloro-1,2,2-trifluoroethane (T)

3.692min (+0.012) 0.29ug/L

response 14803

Ion	Exp%	Act%
101.00	100	100
85.00	47.30	53.38
151.00	79.00	71.30
0.00	0.00	0.00

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

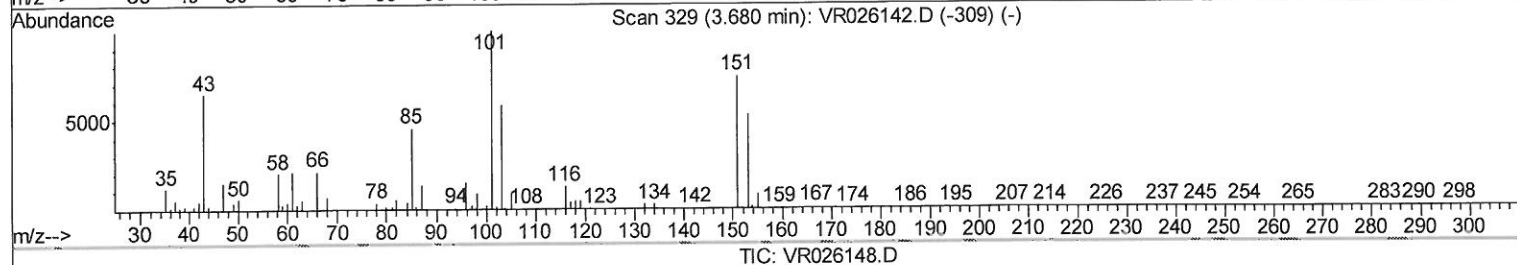
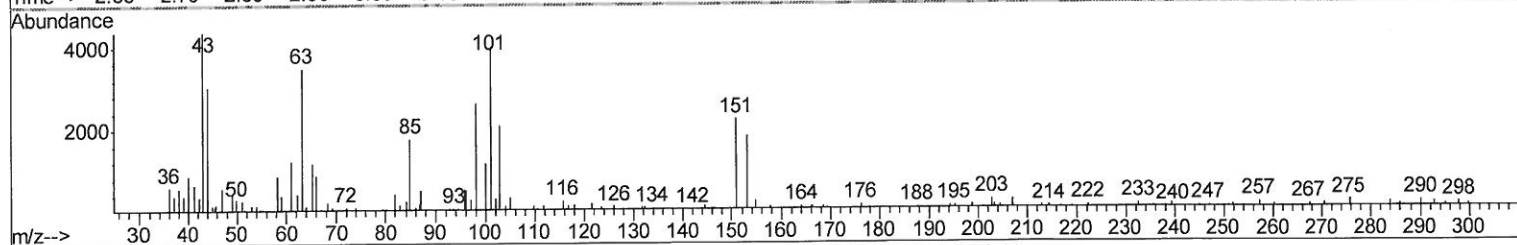
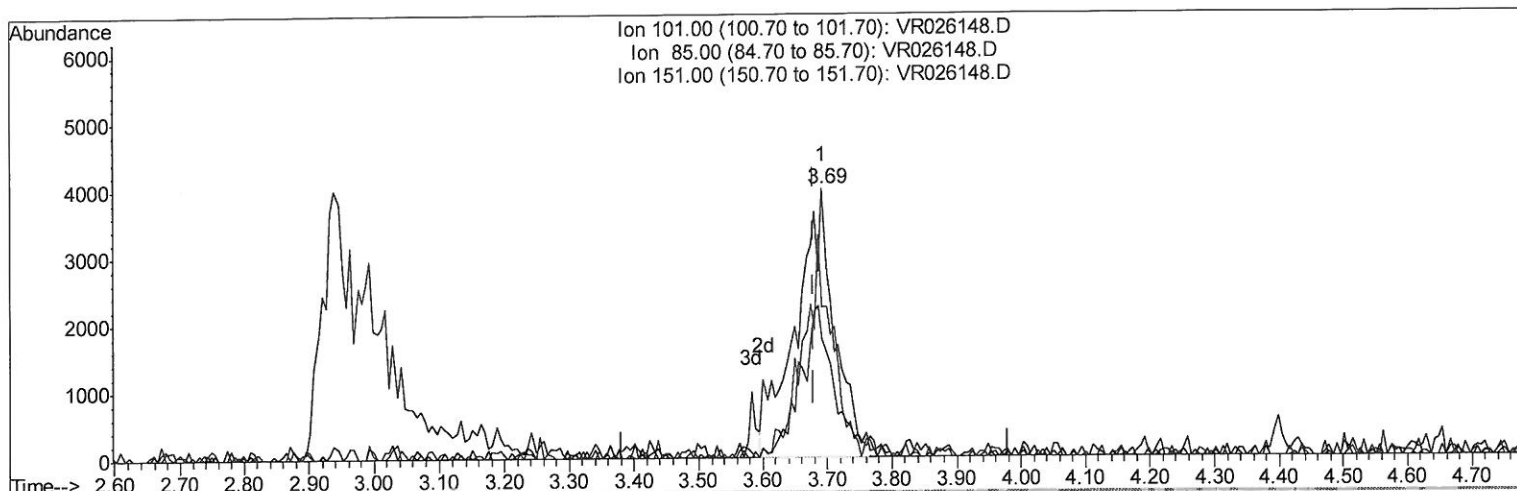
Data File : VR026148.D
Acq On : 19 Oct 2018 14:04
Operator : SY/MD
Sample : MDL
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:23 PM

Quant Time: Oct 20 01:58:34 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



(10) 1,1,2-Trichloro-1,2,2-trifluoroethane (T)

3.692min (+0.012) 0.32ug/L m > 10/23/18 sy

response 16607

Ion	Exp%	Act%
101.00	100	100
85.00	47.30	47.58
151.00	79.00	63.56
0.00	0.00	0.00

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

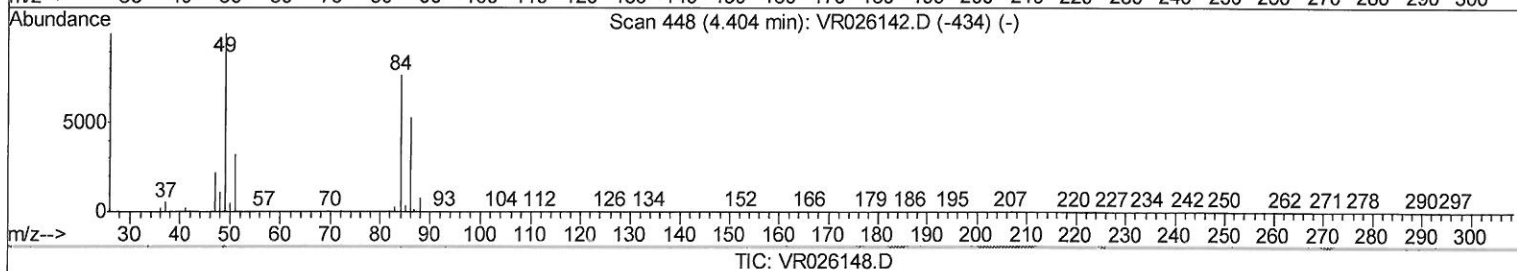
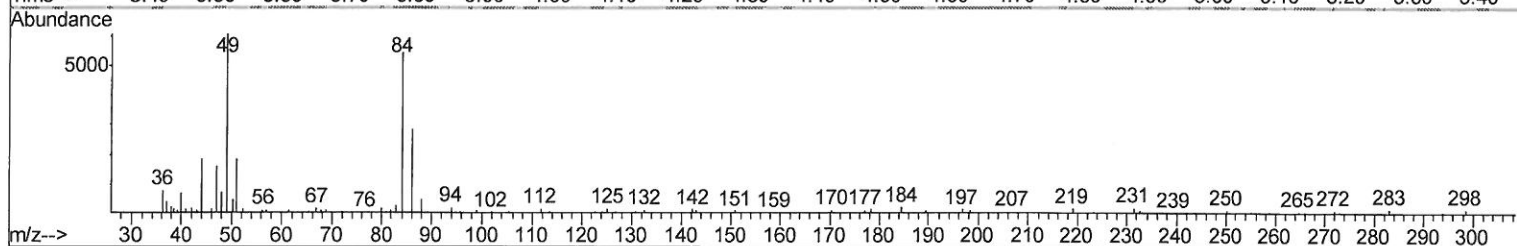
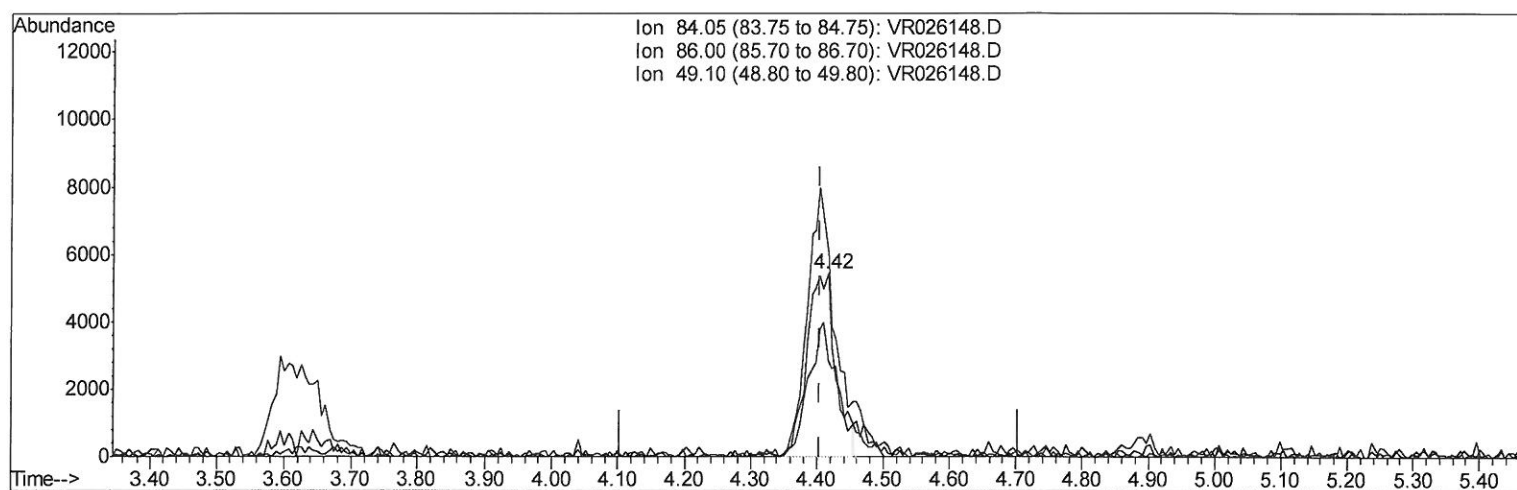
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Manual Integrations
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(16) Methylene chloride (T)

4.416min (+0.012) 0.33ug/L

response 16117

Ion	Exp%	Act%
84.05	100	100
86.00	61.40	52.42
49.10	127.30	111.74
0.00	0.00	0.00

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Quantitation Report (Qedit)

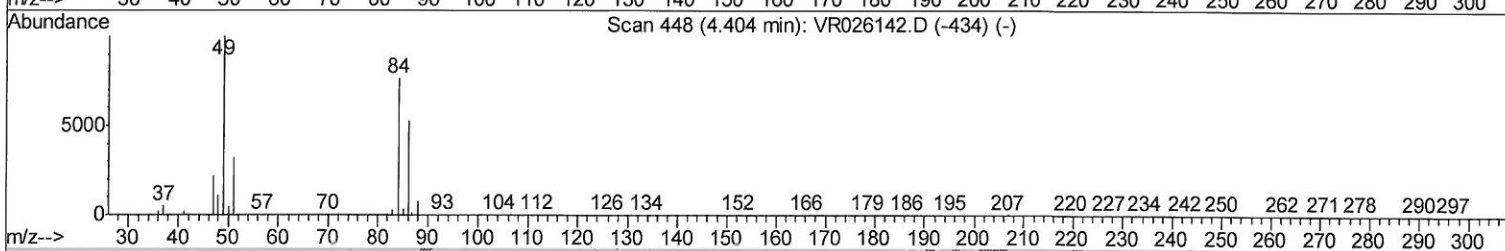
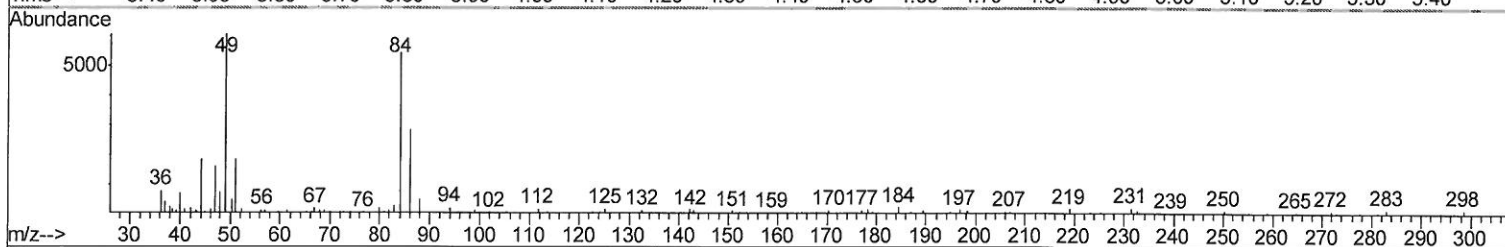
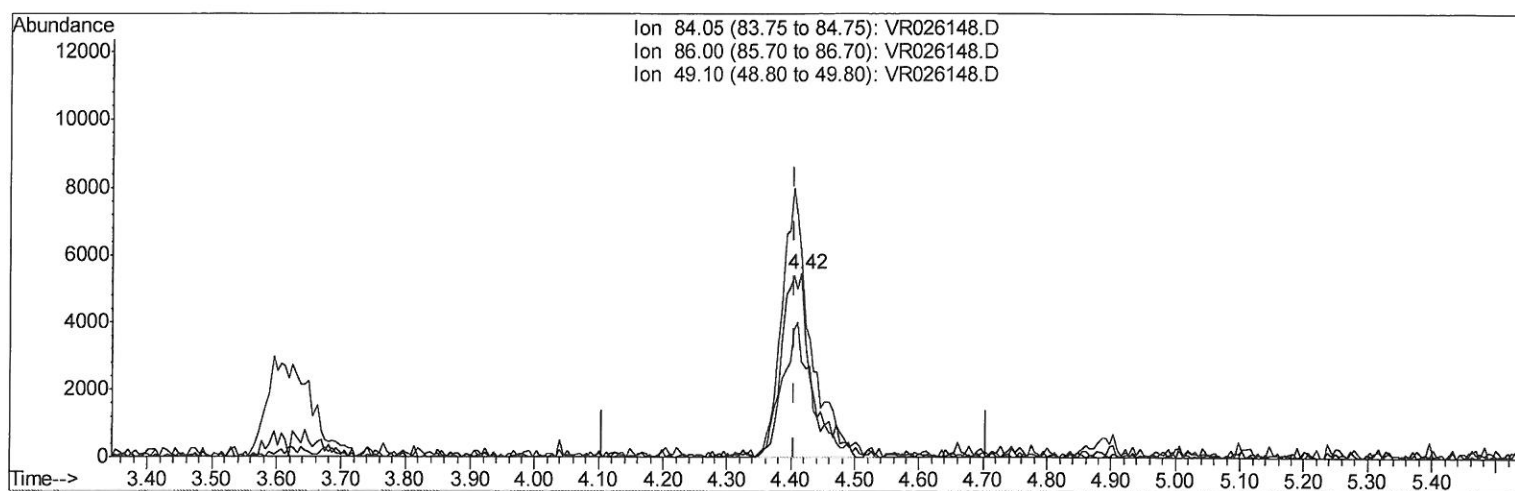
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ALS Vial : 8 Sample Multiplier: 1

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Manual Integrations
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Response via : Initial Calibration



TIC: VR026148.D

(16) Methylene chloride (T)

4.416min (+0.012) 0.36ug/L m 71612310887

response 17889

Ion	Exp%	Act%
84.05	100	100
86.00	61.40	52.42
49.10	127.30	111.74
0.00	0.00	0.00

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

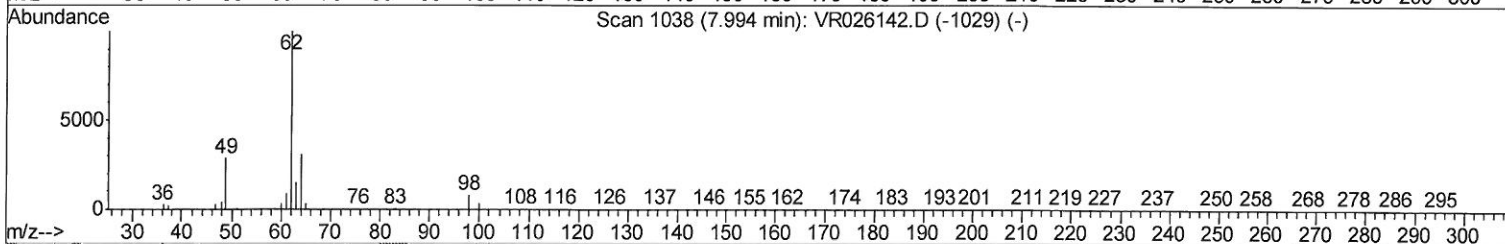
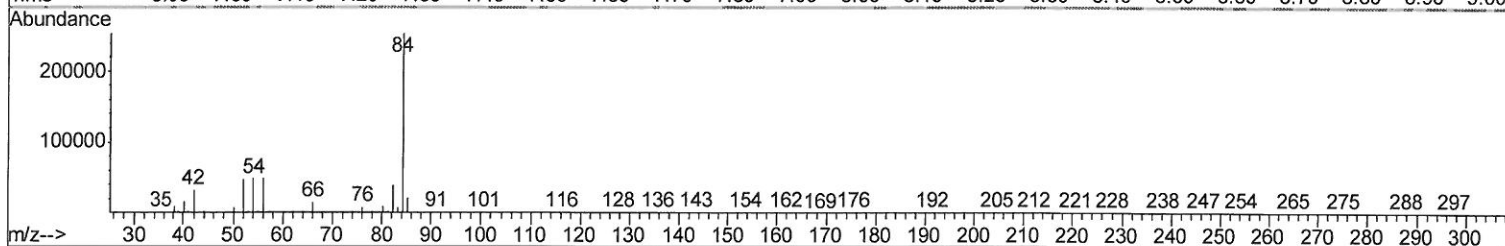
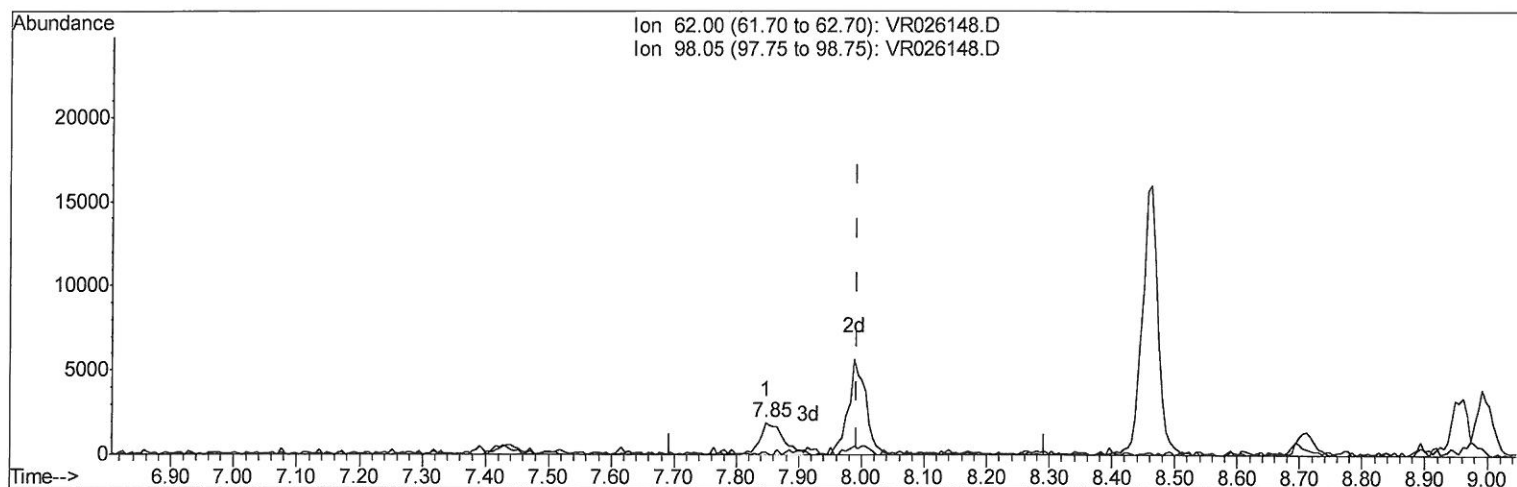
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TIC: VR026148.D

(27) 1,2-Dichloroethane (T)

7.848min (-0.146) 0.13ug/L

response 4855

Ion	Exp%	Act%
62.00	100	100
98.05	7.00	6.59
0.00	0.00	0.00
0.00	0.00	0.00

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

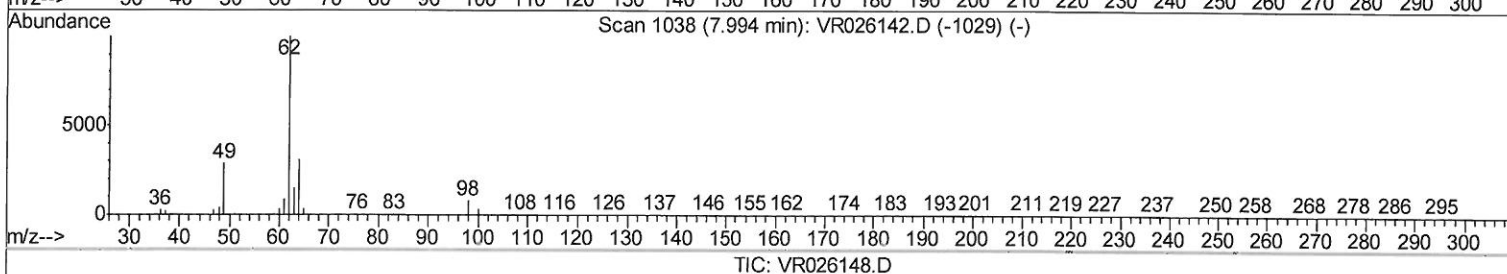
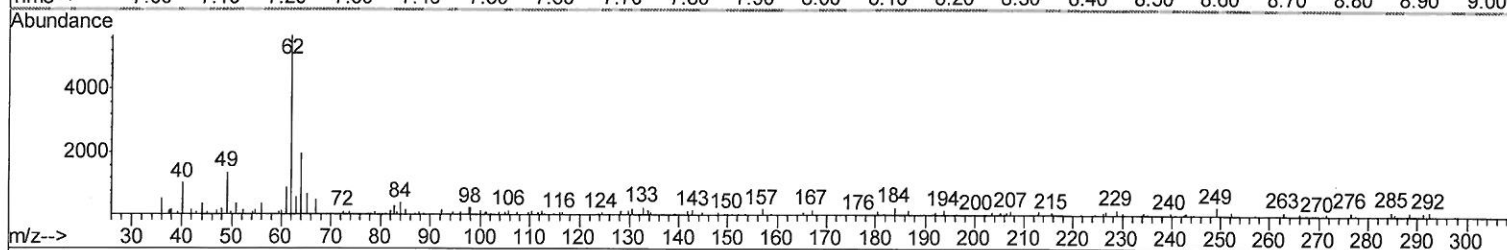
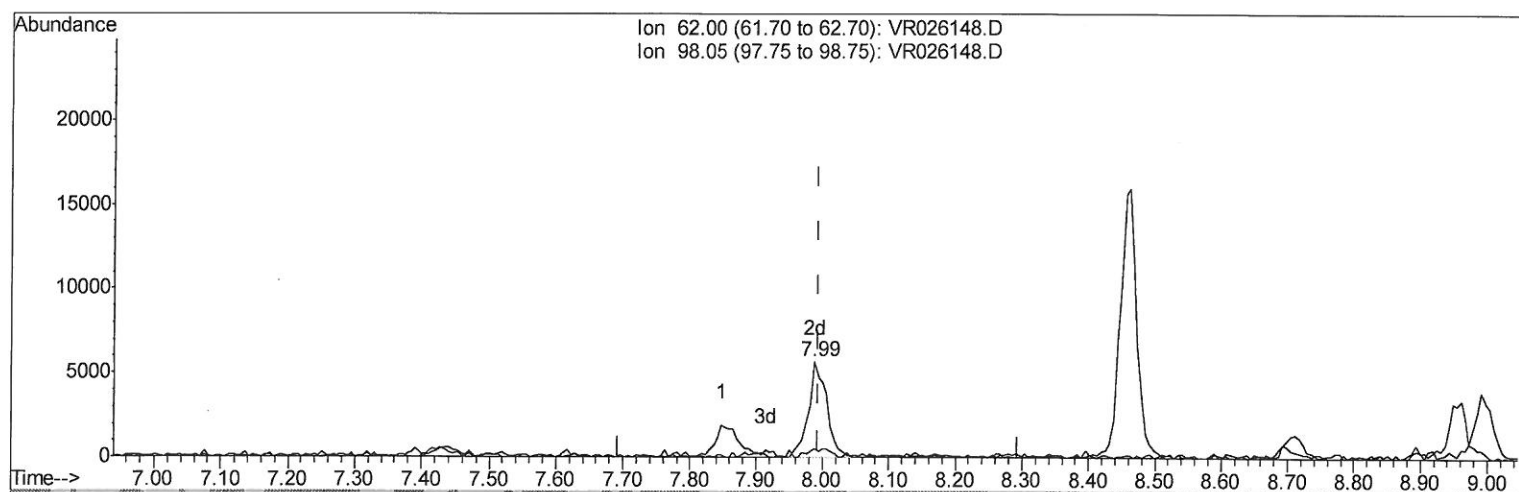
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Instrument :
MSVOA_R
ClientSampleId :
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Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:23 PM

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Response via : Initial Calibration



(27) 1,2-Dichloroethane (T)

7.987min (-0.006) 0.30ug/L m

response 10990

Ion	Exp%	Act%
62.00	100	100
98.05	7.00	4.72#
0.00	0.00	0.00
0.00	0.00	0.00

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

Data File : VR026148.D
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Operator : SY/MD
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ALS Vial : 8 Sample Multiplier: 1

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MSVOA_R
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Manual Integrations
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MMDadoda
10/24/2018 12:17:23 PM

Quant Time: Oct 20 02:18:46 2018
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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	559373	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	470670	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	150045	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	182667	3.73	ug/L	0.00
Spiked Amount 5.000	Range 40 - 130		Recovery =	74.60%		
7) Chloroethane-d5	2.63	69	185625	4.41	ug/L	0.00
Spiked Amount 5.000	Range 65 - 130		Recovery =	88.20%		
11) 1,1-Dichloroethene-d2	3.61	63	348964	2.90	ug/L	0.00
Spiked Amount 5.000	Range 60 - 125		Recovery =	58.00%#		
20) 2-Butanone-d5	6.59	46	223691	55.66	ug/L	0.00
Spiked Amount 50.000	Range 40 - 130		Recovery =	111.32%		
24) Chloroform-d	7.20	84	340699	4.38	ug/L	0.00
Spiked Amount 5.000	Range 70 - 125		Recovery =	87.60%		
26) 1,2-Dichloroethane-d4	7.90	65	149720	4.63	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery =	92.60%		
32) Benzene-d6	7.85	84	641425	4.24	ug/L	0.00
Spiked Amount 5.000	Range 70 - 125		Recovery =	84.80%		
36) 1,2-Dichloropropane-d6	8.90	67	188159	4.82	ug/L	0.00
Spiked Amount 5.000	Range 60 - 140		Recovery =	96.40%		
41) Toluene-d8	9.97	98	577703	4.04	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery =	80.80%		
43) trans-1,3-Dichloropropene-	10.24	79	38574	3.77	ug/L	0.00
Spiked Amount 5.000	Range 55 - 130		Recovery =	75.40%		
46) 2-Hexanone-d5	10.59	63	168087	56.83	ug/L	0.00
Spiked Amount 50.000	Range 45 - 130		Recovery =	113.66%		
57) 1,1,2,2-Tetrachloroethane-	12.36	84	73200	4.78	ug/L	0.00
Spiked Amount 5.000	Range 65 - 120		Recovery =	95.60%		
64) 1,2-Dichlorobenzene-d4	13.51	152	114046	4.81	ug/L	0.00
Spiked Amount 5.000	Range 80 - 120		Recovery =	96.20%		

Target Compounds

				Qvalue	
2) Dichlorodifluoromethane	1.83	85	9429m	0.251 ug/L	
3) Chloromethane	2.01	50	18117	0.304 ug/L	87
5) Vinyl chloride	2.16	62	17923	0.302 ug/L	92
6) Bromomethane	2.53	94	11007m	0.280 ug/L	
8) Chloroethane	2.66	64	12991	0.353 ug/L	94
9) Trichlorofluoromethane	2.94	101	22155m	0.258 ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	16607m	0.325 ug/L	
12) 1,1-Dichloroethene	3.64	96	19621	0.361 ug/L #	1
13) Acetone	3.70	43	14673	3.532 ug/L	91
14) Carbon disulfide	3.93	76	32563	0.229 ug/L #	94
15) Methyl Acetate	4.19	43	5023	0.463 ug/L #	82
16) Methylene chloride	4.42	84	17889m	0.363 ug/L	
17) Methyl tert-butyl Ether	4.88	73	12917	0.262 ug/L #	84
18) trans-1,2-Dichloroethene	4.88	96	10092	0.245 ug/L	92
19) 1,1-Dichloroethane	5.69	63	23652	0.306 ug/L	97
21) 2-Butanone	6.69	43	12499	2.608 ug/L	95
22) cis-1,2-Dichloroethene	6.68	96	11123	0.286 ug/L #	88

10/23/18 sy

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

Data File : VR026148.D
Acq On : 19 Oct 2018 14:04
Operator : SY/MD
Sample : MDL
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
MDL

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:17:23 PM

Quant Time: Oct 20 02:18:46 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	7.04	128	2946	0.270	ug/L #	67
25) Chloroform	7.23	83	23558	0.313	ug/L	94
27) 1,2-Dichloroethane	7.99	62	10990m	0.298	ug/L	99
29) 1,1,1-Trichloroethane	7.43	97	17803	0.277	ug/L	95
30) Cyclohexane	7.51	56	12057	0.187	ug/L	83
31) Carbon tetrachloride	7.63	117	14370	0.246	ug/L	100
33) Benzene	7.91	78	51473	0.291	ug/L	87
34) Trichloroethene	8.71	95	12856	0.284	ug/L	71
35) Methylcyclohexane	8.96	83	12643	0.188	ug/L #	98
37) 1,2-Dichloropropane	9.00	63	11489	0.308	ug/L	94
38) Bromodichloromethane	9.28	83	10905	0.272	ug/L #	85
39) cis-1,3-Dichloropropene	9.72	75	10694	0.251	ug/L	87
40) 4-Methyl-2-pentanone	9.87	43	27326	2.401	ug/L #	97
42) Toluene	10.04	91	48815	0.262	ug/L	100
44) trans-1,3-Dichloropropene	10.26	75	9425	0.316	ug/L	91
45) 1,1,2-Trichloroethane	10.45	97	5606	0.357	ug/L	90
47) Tetrachloroethene	10.51	164	9173	0.284	ug/L	97
48) 2-Hexanone	10.63	43	21490	2.892	ug/L #	86
49) Dibromochloromethane	10.79	129	4370	0.247	ug/L	85
50) 1,2-Dibromoethane	10.89	107	3436	0.253	ug/L #	98
51) Chlorobenzene	11.31	112	29139	0.282	ug/L	96
52) Ethylbenzene	11.39	91	48429	0.226	ug/L	93
53) m,p-Xylene	11.51	106	16273	0.208	ug/L	86
54) o-Xylene	11.83	106	13802	0.193	ug/L	86
55) Styrene	11.84	104	20466	0.186	ug/L	97
56) Isopropylbenzene	12.13	105	34700	0.174	ug/L	83
58) 1,1,2,2-Tetrachloroethane	12.38	83	5583	0.350	ug/L #	61
59) 1,2,3-Trichloropropane	12.43	75	3512	0.299	ug/L #	69
61) Bromoform	12.01	173	1461	0.280	ug/L #	88
62) 1,3-Dichlorobenzene	13.16	146	12532	0.251	ug/L	91
63) 1,4-Dichlorobenzene	13.24	146	14893	0.288	ug/L	89
65) 1,2-Dichlorobenzene	13.52	146	13012	0.325	ug/L	91
66) 1,2-Dibromo-3-chloropropan	14.14	75	800	0.491	ug/L	90
67) 1,3,5-Trichlorobenzene	14.29	180	7492	0.247	ug/L #	87
68) 1,2,4-trichlorobenzene	14.79	180	4160	0.235	ug/L	85
69) Naphthalene	15.00	128	3413	0.198	ug/L #	88
70) 1,2,3-Trichlorobenzene	15.18	180	3739	0.304	ug/L #	

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