

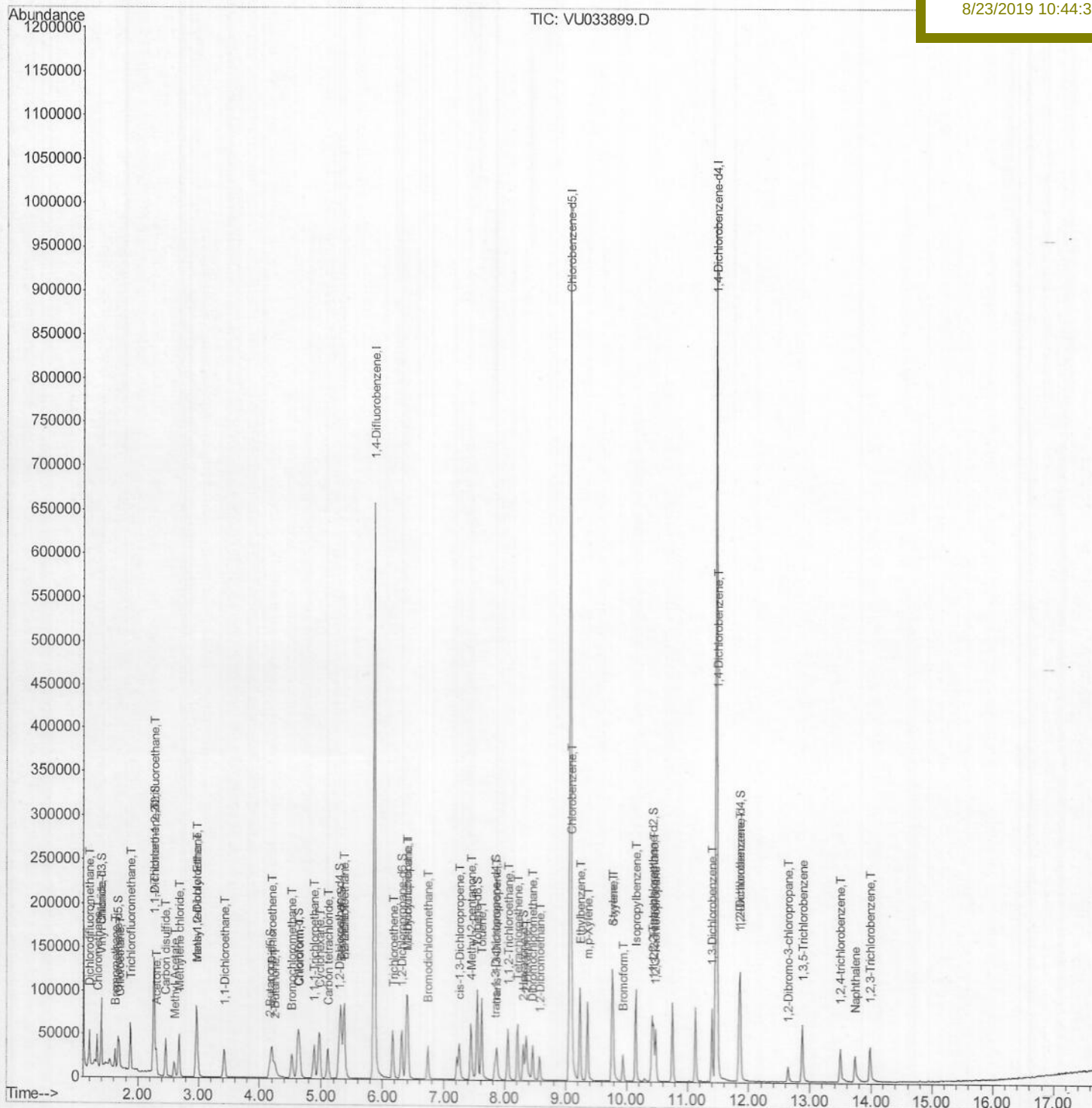
Data File : VU033899.D
Acq On : 22 Aug 2019 14:50
Operator : JC/SP
Sample : VSTD00535
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 02:01:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
Client Sampled :
VSTD00535

Manual Integrations
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8/23/2019 10:44:38 AM



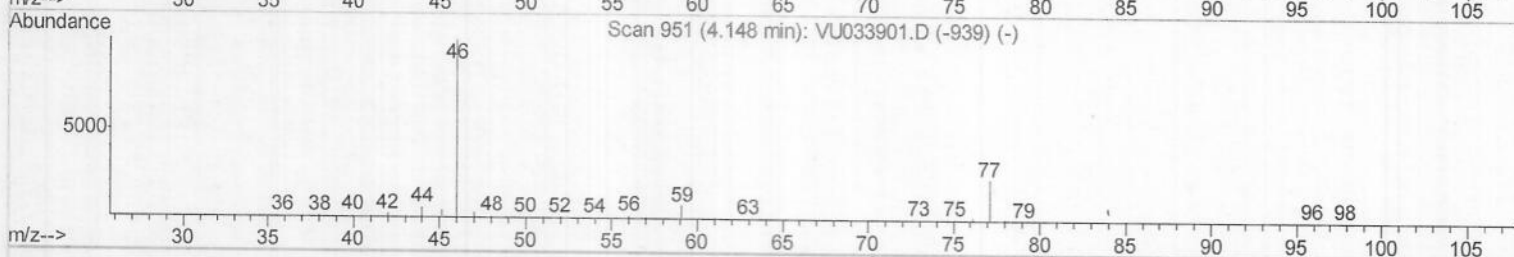
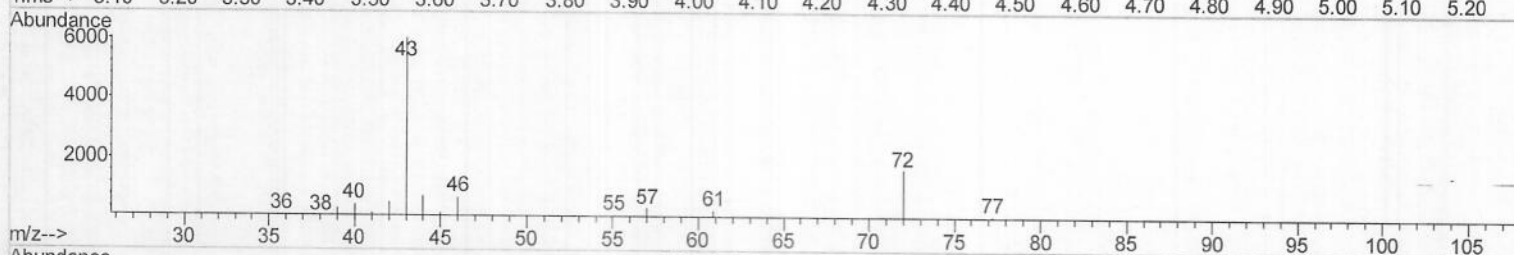
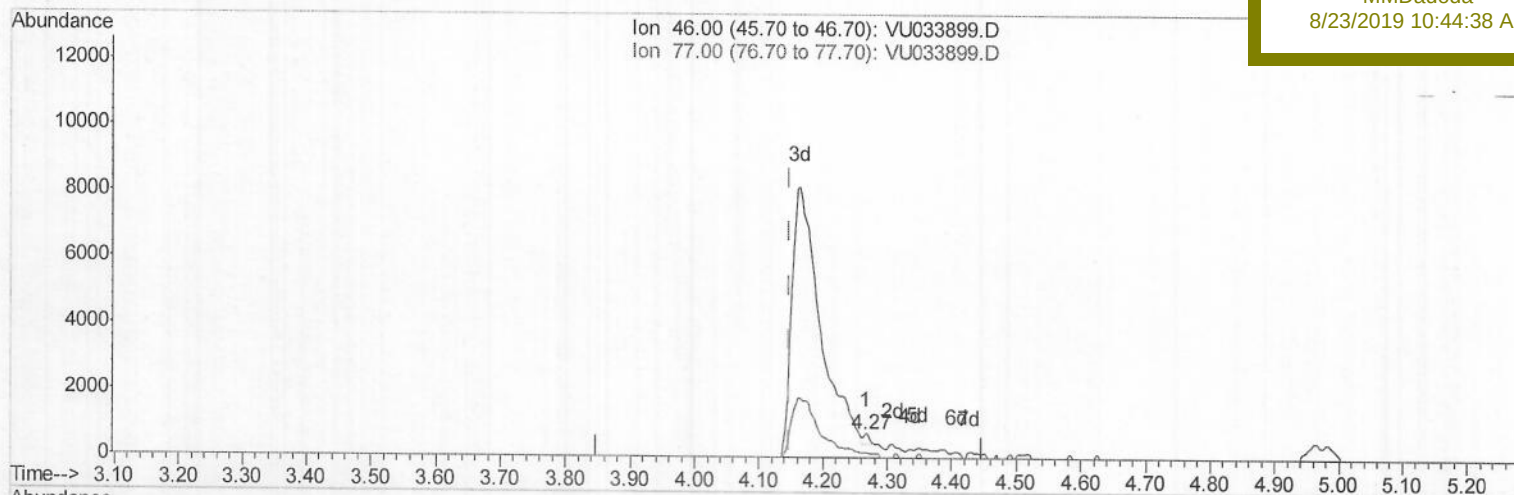
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Operator : JC/SP
Sample : VSTD00535
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 01:56:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

Manual Integrations
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TIC: VU033899.D

(21) 2-Butanone-d5 (S)

4.267min (+0.119) 0.08ug/L

response 220

Ion	Exp%	Act%
46.00	100	100
77.00	23.60	19.55
0.00	0.00	0.00
0.00	0.00	0.00

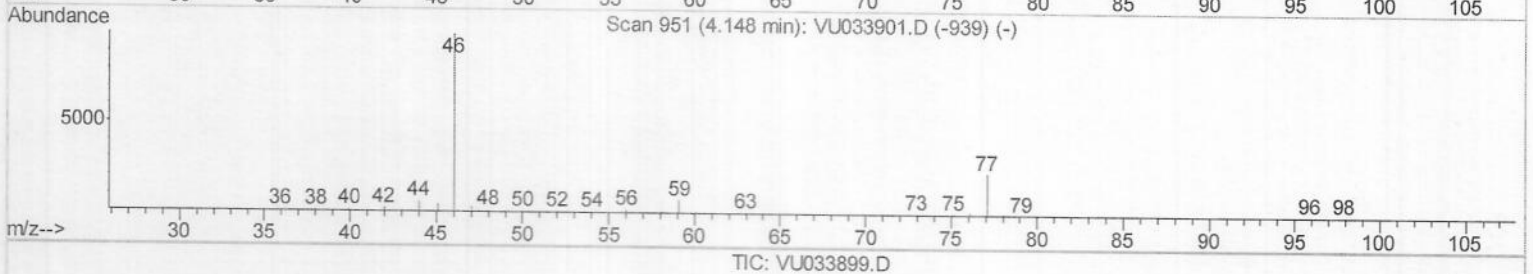
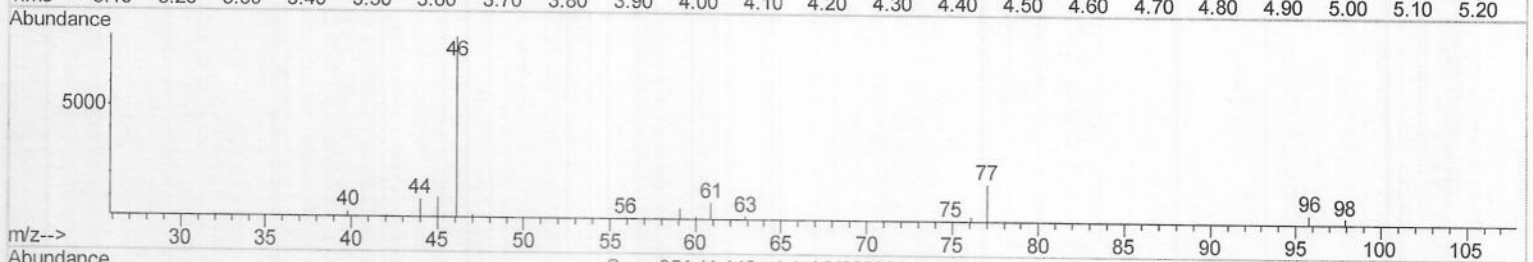
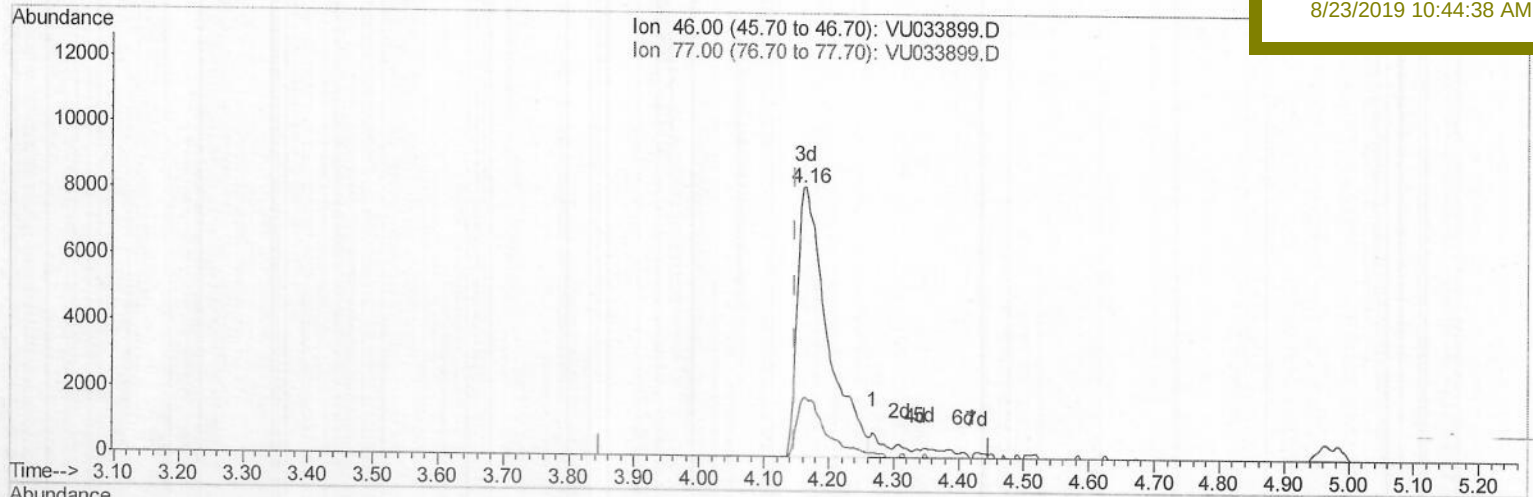
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Sample : VSTD00535
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

Manual Integrations
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(21) 2-Butanone-d5 (S)

4.164min (+0.016) 9.52ug/L m) MD08/26/19

response 26266

Ion	Exp%	Act%
46.00	100	100
77.00	23.60	0.16#
0.00	0.00	0.00
0.00	0.00	0.00

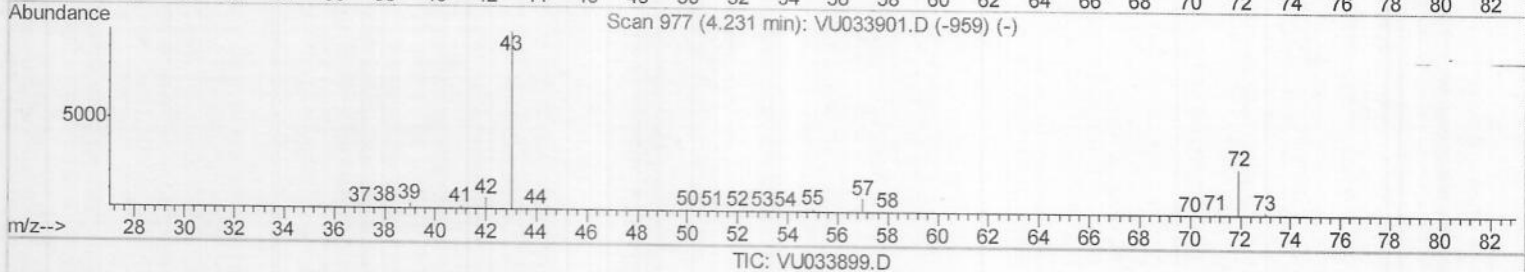
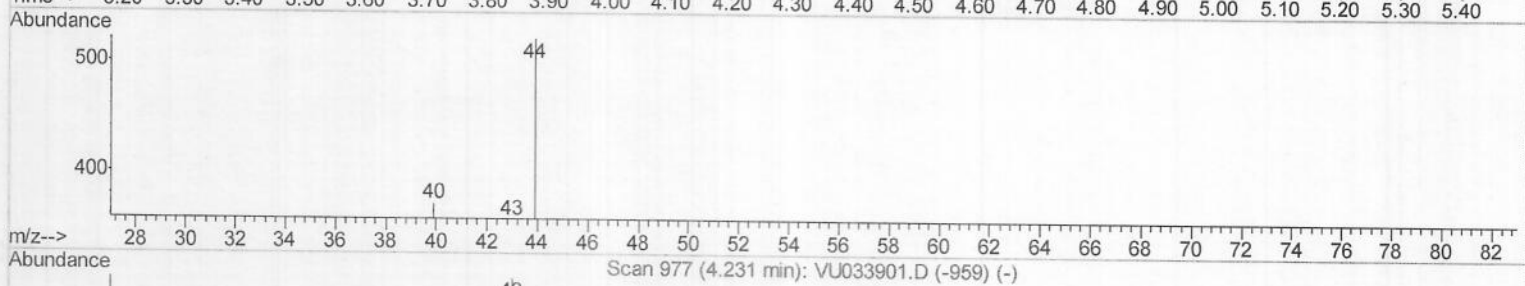
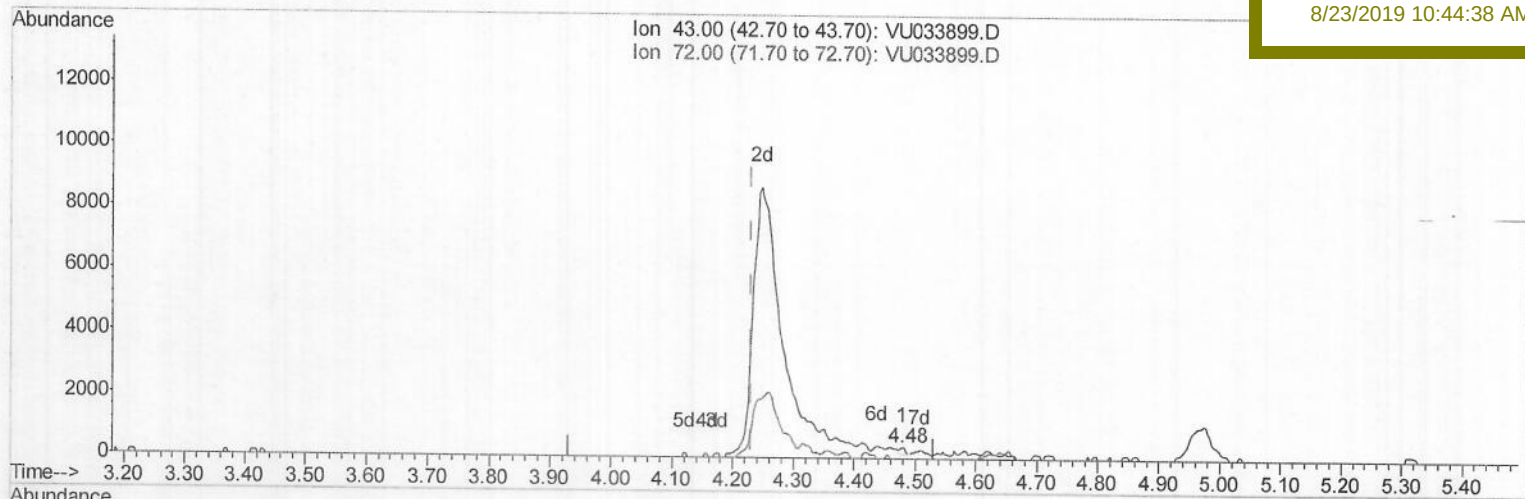
Data File : VU033899.D
Acq On : 22 Aug 2019 14:50
Operator : JC/SP
Sample : VSTD00535
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 01:56:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration

Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

Manual Integrations
APPROVED

MMDadoda
8/23/2019 10:44:38 AM



(22) 2-Butanone (T)

4.479min (+0.248) 0.04ug/L

response 118

Ion	Exp%	Act%
43.00	100	100
72.00	26.00	38.98
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082219\
Quantitation Report (Qedit)

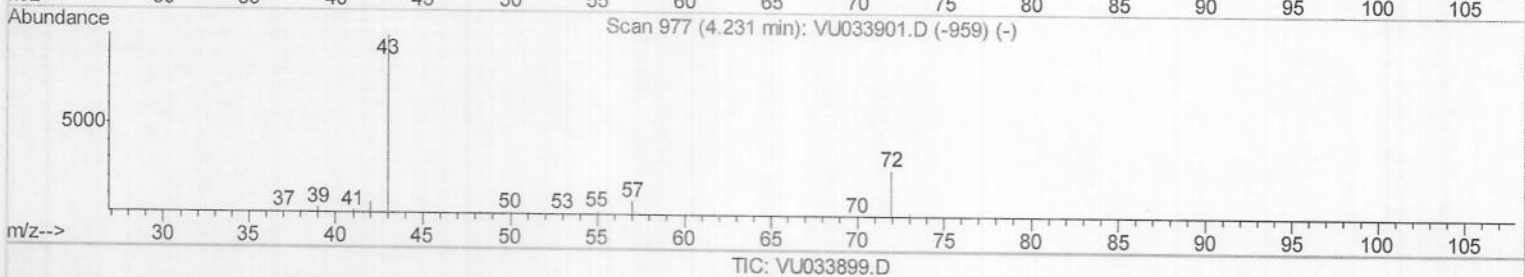
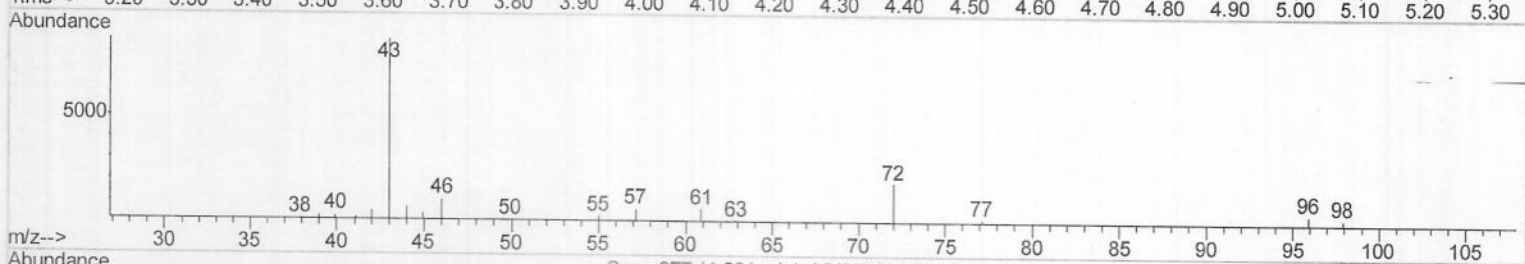
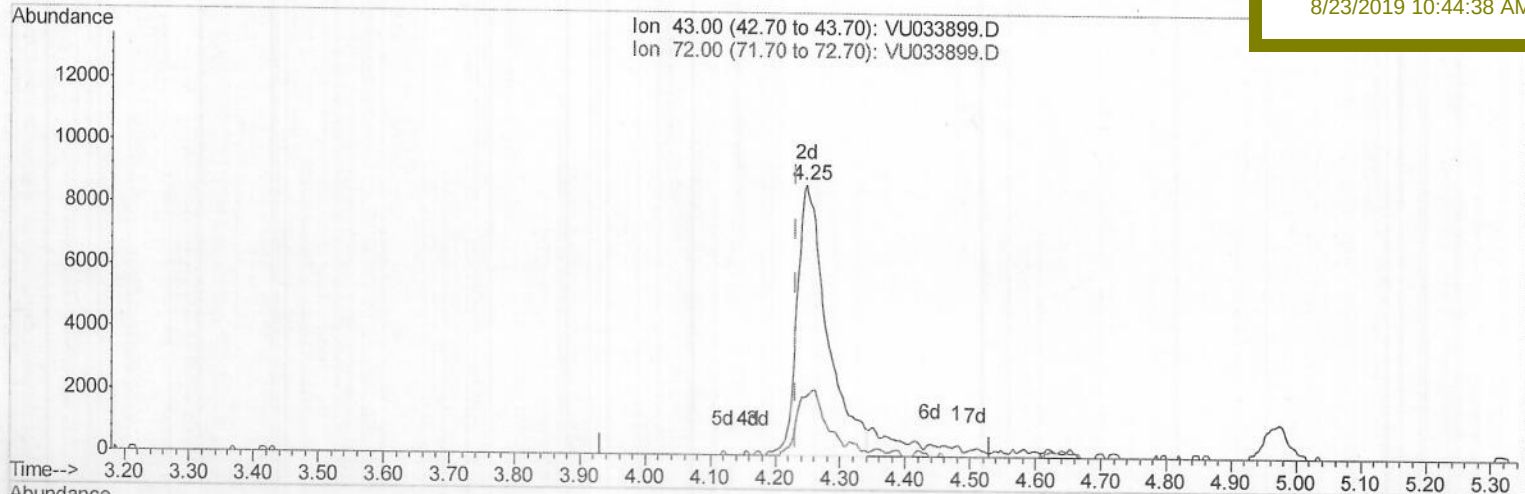
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Operator : JC/SP
Sample : VSTD00535
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 01:56:18 2019
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Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
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Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations
APPROVED

MMDadoda
8/23/2019 10:44:38 AM



(22) 2-Butanone (T)

4.248min (+0.016) 9.03ug/L m 5 M08/26/19

response 28314

Ion	Exp%	Act%
43.00	100	100
72.00	26.00	0.16#
0.00	0.00	0.00
0.00	0.00	0.00

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Operator : JC/SP
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ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
Client Sample ID :
VSTD00535

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	553913	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	562063	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	260275	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	26565	5.31	ug/L	0.00
7) Chloroethane-d5	1.67	69	22903	5.01	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	44786	5.27	ug/L	0.00
21) 2-Butanone-d5	4.16	46	26266m	9.52	ug/L	0.02
24) Chloroform-d	4.62	84	42710	5.29	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	29159	5.74	ug/L	0.00
32) Benzene-d6	5.32	84	82528	5.20	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	27934	5.40	ug/L	0.00
41) Toluene-d8	7.55	98	70146	4.78	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	10509	4.37	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	12583	6.41	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	37374	5.22	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	28169	5.38	ug/L	0.00

MD 08/26/19

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	24411	4.503	ug/L	100
3) Chloromethane	1.32	50	22828	4.123	ug/L	98
5) Vinyl chloride	1.40	62	25895	4.187	ug/L	90
6) Bromomethane	1.62	94	9057	2.129	ug/L	97
8) Chloroethane	1.69	64	15592	3.668	ug/L	98
9) Trichlorofluoromethane	1.87	101	31714	3.915	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	18574	4.657	ug/L	98
12) 1,1-Dichloroethene	2.27	96	16978	4.417	ug/L	88
13) Acetone	2.31	43	31187	11.581	ug/L	98
14) Carbon disulfide	2.46	76	52946	4.366	ug/L	99
15) Methyl Acetate	2.60	43	22100	4.961	ug/L	97
16) Methylene chloride	2.68	84	19930	4.432	ug/L	93
17) trans-1,2-Dichloroethene	2.96	96	17263	4.284	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	46886	3.966	ug/L	96
19) 1,1-Dichloroethane	3.42	63	35847	4.586	ug/L	96
20) cis-1,2-Dichloroethene	4.20	96	18061	4.141	ug/L	91
22) 2-Butanone	4.25	43	28314m	9.027	ug/L	91
23) Bromochloromethane	4.52	128	9678	4.109	ug/L	93
25) Chloroform	4.65	83	38093	4.725	ug/L	98
27) 1,2-Dichloroethane	5.38	62	27101	4.417	ug/L	100
29) Cyclohexane	4.97	56	24154	3.920	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	28239	4.162	ug/L	99
31) Carbon tetrachloride	5.11	117	24850	4.033	ug/L	95
33) Benzene	5.37	78	69927	4.075	ug/L	100
34) Trichloroethene	6.16	95	19354	4.263	ug/L	95
35) Methylcyclohexane	6.40	83	26637	3.965	ug/L	96
37) 1,2-Dichloropropane	6.41	63	21082	4.495	ug/L #	94
38) Bromodichloromethane	6.74	83	26697	4.394	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	26990	3.927	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	46798	8.165	ug/L	95

MD 08/26/19

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8/23/2019 10:44:38 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	70611	3.917	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	22766	3.615	ug/L	95
45) 1,1,2-Trichloroethane	8.05	97	18679	4.248	ug/L	96
46) Tetrachloroethene	8.21	164	15201	4.188	ug/L	96
48) 2-Hexanone	8.35	43	35445	7.919	ug/L #	91
49) Dibromochloromethane	8.46	129	20059	4.072	ug/L	100
50) 1,2-Dibromoethane	8.57	107	18841	4.044	ug/L	99
51) Chlorobenzene	9.10	112	50652	4.257	ug/L	99
52) Ethylbenzene	9.23	91	73496	3.834	ug/L	99
53) m,p-Xylene	9.36	106	25998	3.635	ug/L	93
54) o-xylene	9.76	106	24726	3.560	ug/L	97
55) Styrene	9.78	104	38164	3.212	ug/L	100
56) Isopropylbenzene	10.15	105	64058	3.530	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.44	83	30778	4.287	ug/L	94
59) 1,2,3-Trichloropropane	10.48	75	26162	4.566	ug/L	96
61) Bromoform	9.94	173	14741	4.491	ug/L	96
62) 1,3-Dichlorobenzene	11.40	146	35285	4.282	ug/L	97
63) 1,4-Dichlorobenzene	11.49	146	38109	4.468	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	35622	4.318	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	6080	4.315	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	25022	3.945	ug/L	97
68) 1,2,4-trichlorobenzene	13.49	180	14605	2.803	ug/L	95
69) Naphthalene	13.74	128	36619	2.503	ug/L	96
70) 1,2,3-Trichlorobenzene	13.98	180	16998	3.147	ug/L	97

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