

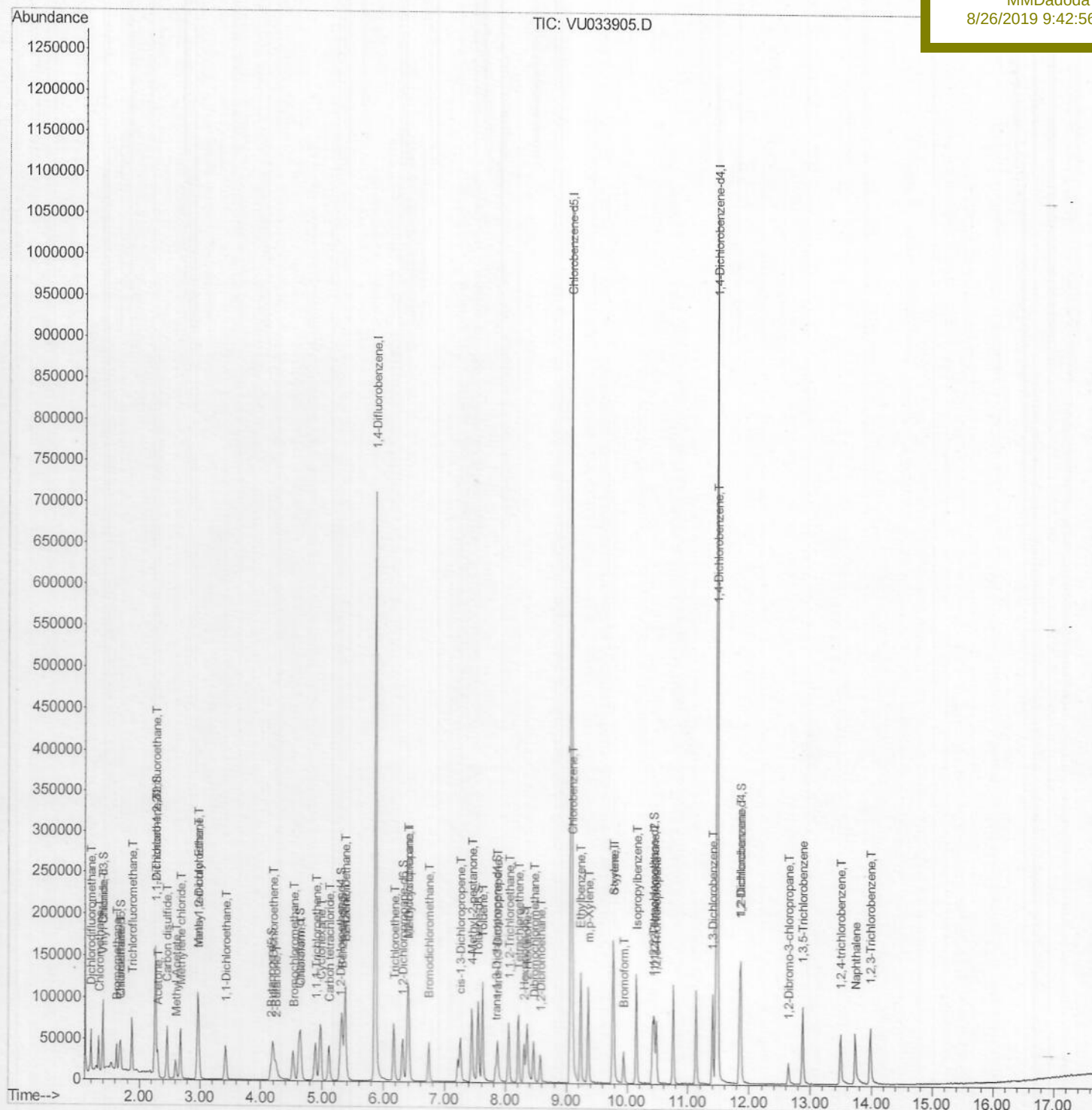
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082219\
Data File : VU033905.D
Acq On : 22 Aug 2019 17:10
Operator : JC/SP
Sample : VSTD00535
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 23 02:10:42 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 Sample ID :
VSTD00535

Manual Integrations
APPROVED

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8/26/2019 9:42:56 AM



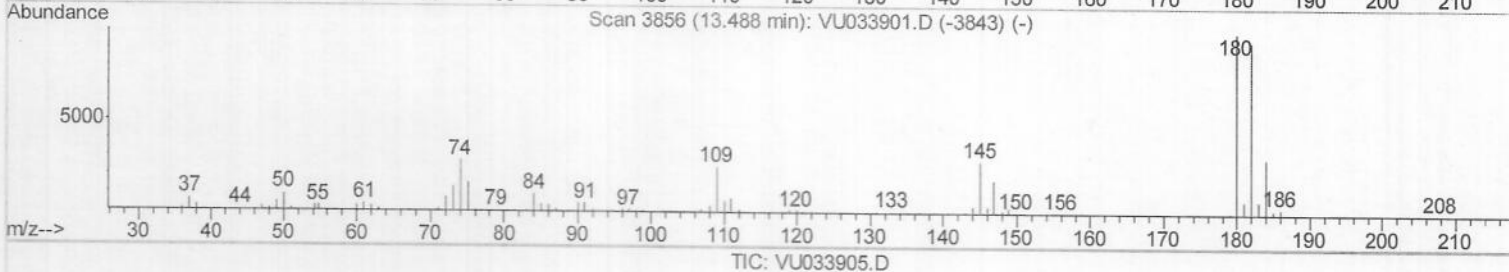
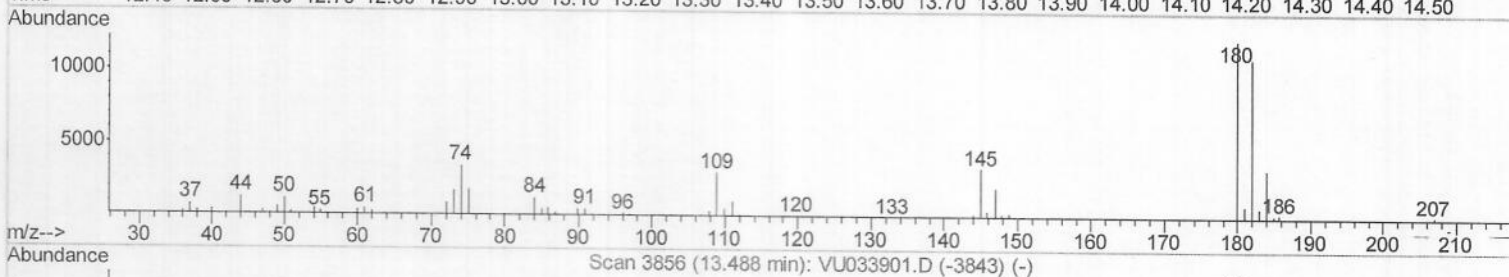
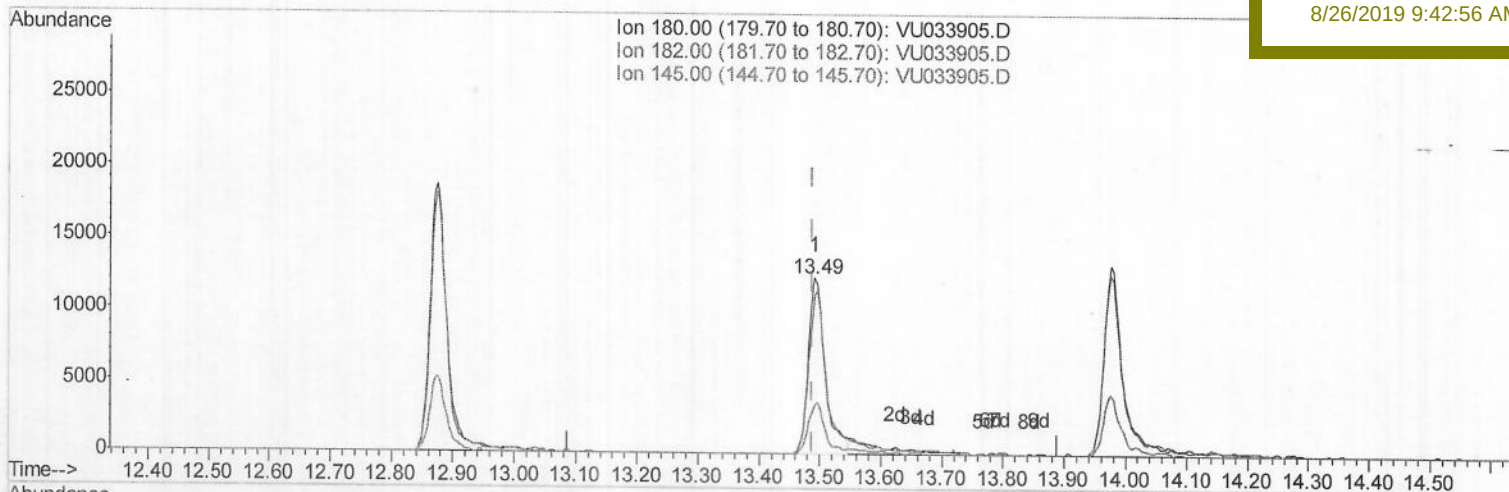
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(68) 1,2,4-trichlorobenzene (T)

13.492min (+0.003) 4.41ug/L

response 24027

Ion	Exp%	Act%
180.00	100	100
182.00	96.00	98.20
145.00	28.50	26.84
0.00	0.00	0.00

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

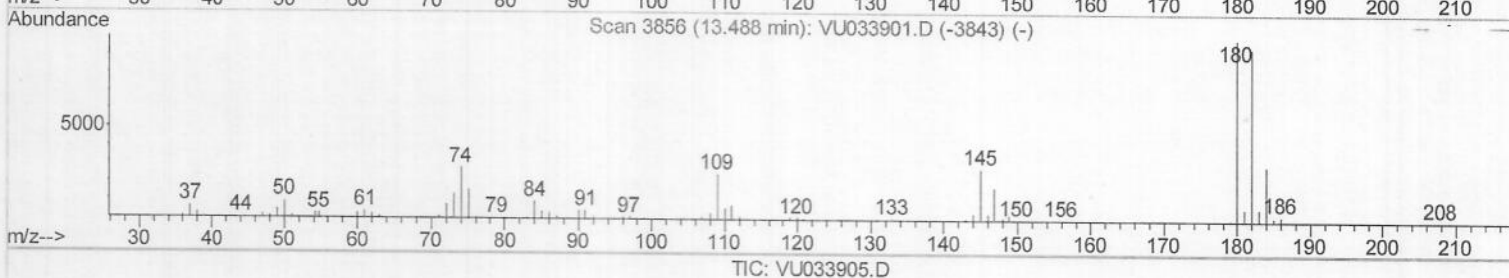
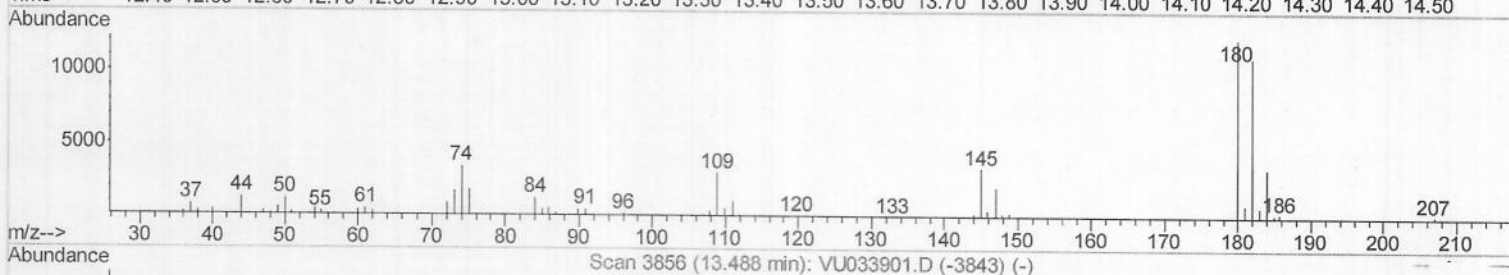
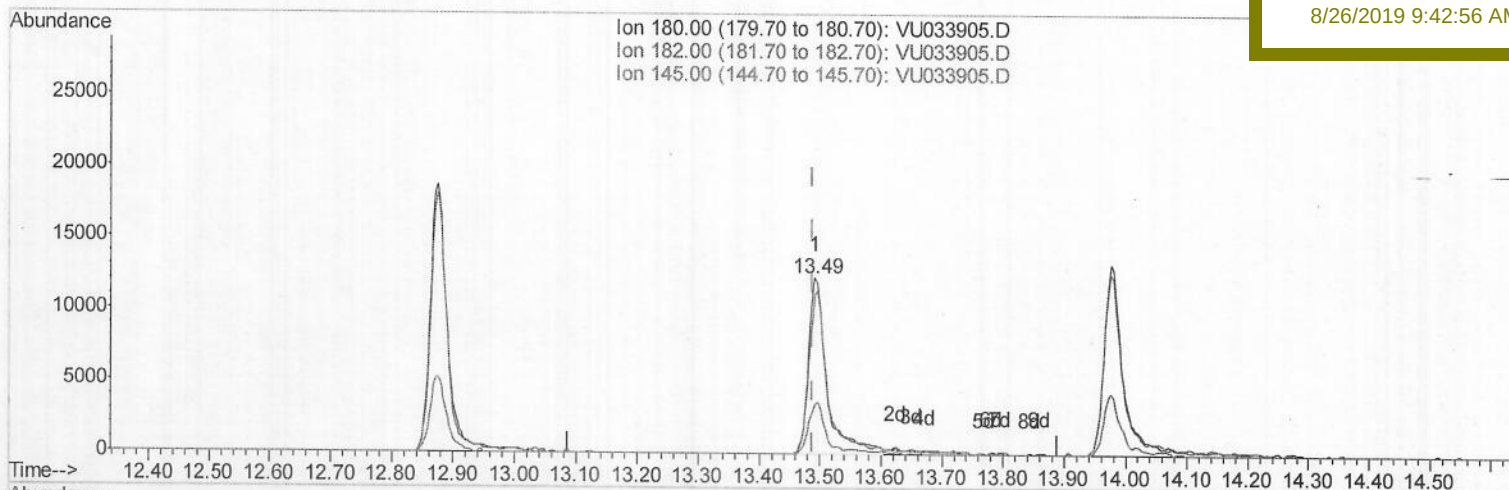
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Client Sample Id :
VSTD00535

Manual Integrations
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8/26/2019 9:42:56 AM



(68) 1,2,4-trichlorobenzene (T)

13.492min (+0.003) 4.86ug/L m) MD 08/26/19

response 26486

Ion	Exp%	Act%
180.00	100	100
182.00	96.00	89.08
145.00	28.50	24.34
0.00	0.00	0.00

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

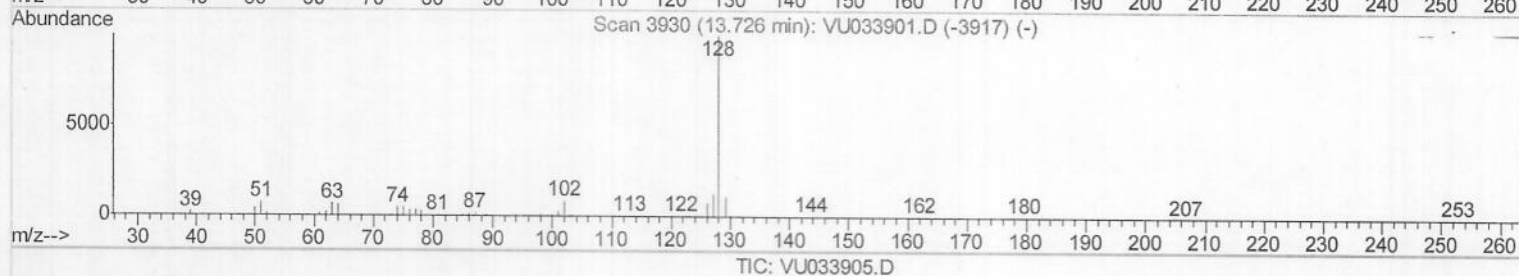
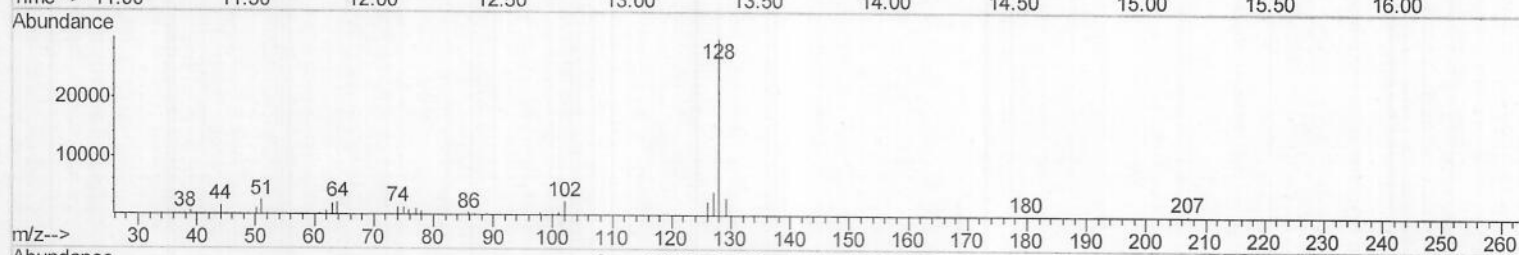
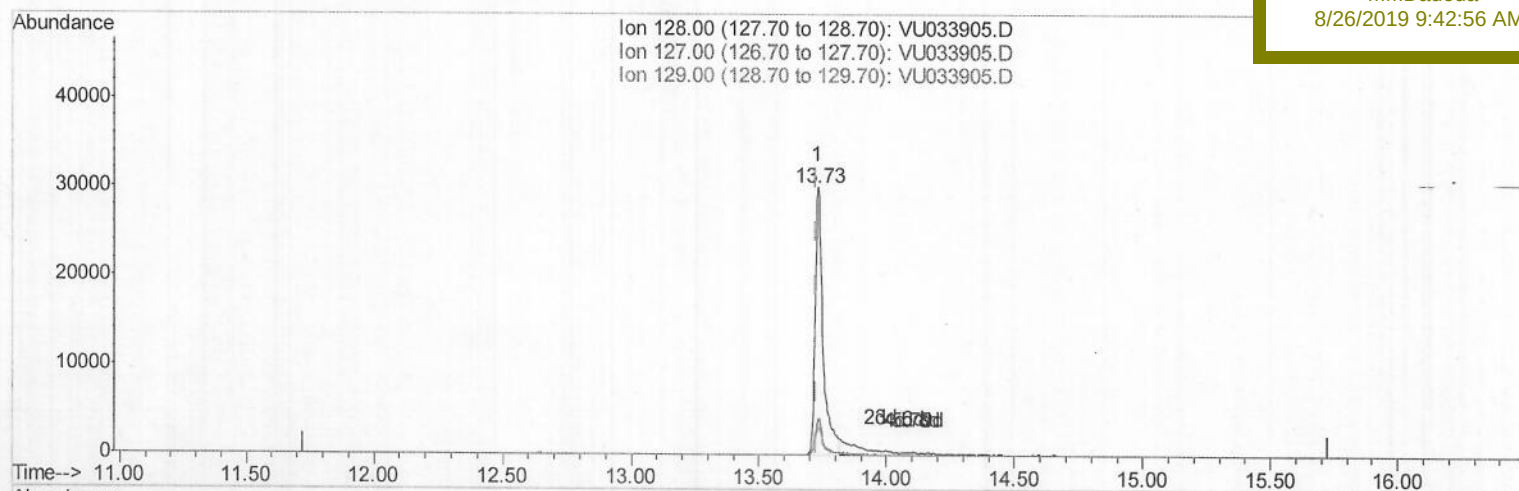
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Instrument :
MSVOA_U
ClientSampleId :
VSTD00535

Manual Integrations
APPROVED

MMDadoda
8/26/2019 9:42:56 AM



(69) Naphthalene

13.733min (+0.007) 4.15ug/L

response 63492

Ion	Exp%	Act%
128.00	100	100
127.00	12.60	12.81
129.00	10.40	9.20
0.00	0.00	0.00

Data File : VU033905.D

Acq On : 22 Aug 2019 17:10

Operator : JC/SP

Sample : VSTD00535

Misc : 5.0mL/MSVOA_U/WATER

ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 23 01:58:34 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 :

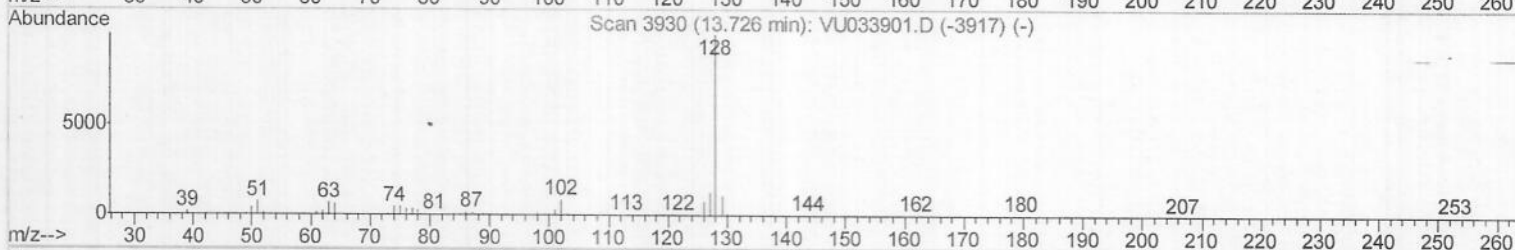
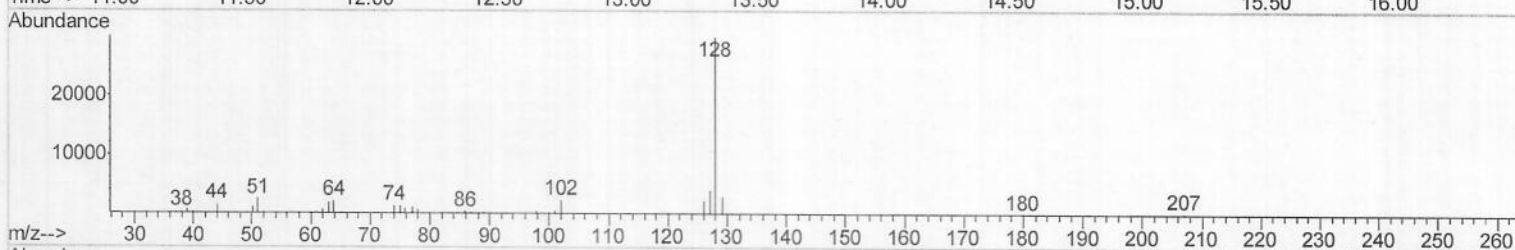
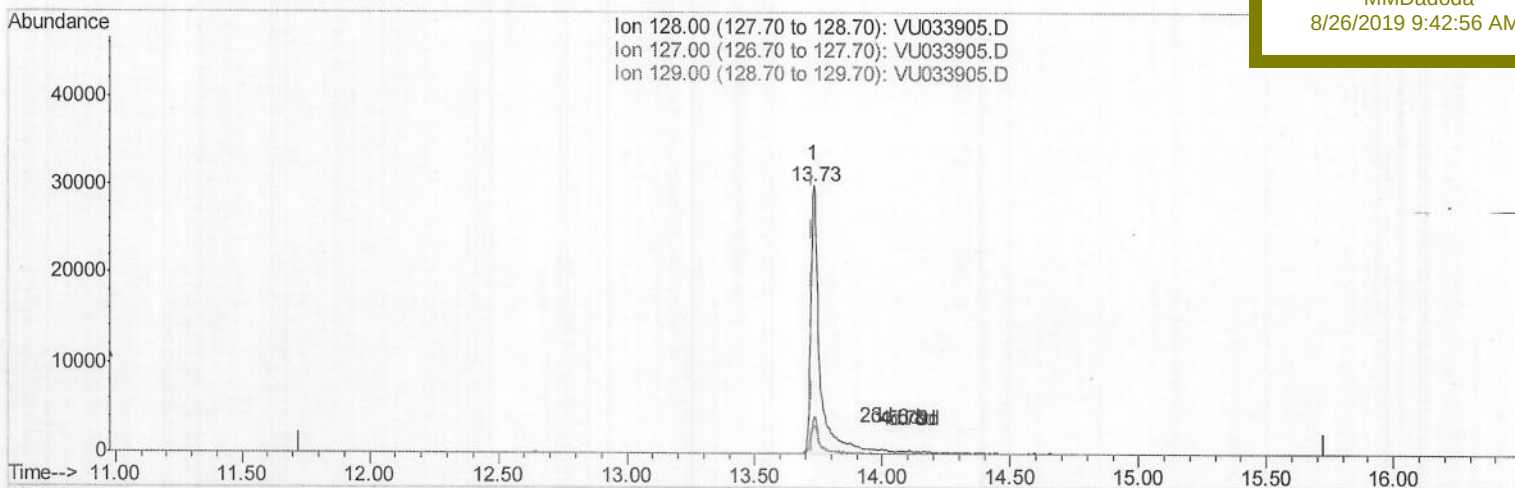
MSVOA_U

ClientSampleId :

VSTD00535

Manual Integrations
APPROVED

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8/26/2019 9:42:56 AM



TIC: VU033905.D

(69) Naphthalene

13.733min (+0.007) 4.58ug/L m) M08/26/19

response 70143

Ion	Exp%	Act%
128.00	100	100
127.00	12.60	11.60
129.00	10.40	8.33
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082219\
 Data File : VU033905.D
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 Operator : JC/SP
 Sample : VSTD00535
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 23 02:10:42 2019
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Instrument :
 MSVOA_U
 Client Sampled :
 VSTD00535

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 9:42:56 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	5.86	114	592512	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	586984	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	272262	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	25278	4.72	ug/L	0.00
7) Chloroethane-d5	1.67	69	19734	4.03	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	47092	5.18	ug/L	0.00
21) 2-Butanone-d5	4.16	46	29050	9.84	ug/L	0.02
24) Chloroform-d	4.62	84	40068	4.64	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	26574	4.89	ug/L	0.00
32) Benzene-d6	5.32	84	79020	4.77	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	25796	4.78	ug/L	0.00
41) Toluene-d8	7.55	98	67222	4.39	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	11065	4.41	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	15463	7.54	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	37962	5.08	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	30087	5.50	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	29010	5.003	ug/L	99
3) Chloromethane	1.32	50	26730	4.514	ug/L	99
5) Vinyl chloride	1.39	62	33800	5.109	ug/L	100
6) Bromomethane	1.62	94	13428	2.951	ug/L	100
8) Chloroethane	1.69	64	19810	4.357	ug/L	98
9) Trichlorofluoromethane	1.87	101	39014	4.503	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	22580	5.292	ug/L	98
12) 1,1-Dichloroethene	2.27	96	21082	5.128	ug/L	84
13) Acetone	2.31	43	32384	11.242	ug/L	97
14) Carbon disulfide	2.46	76	73856	5.694	ug/L	99
15) Methyl Acetate	2.60	43	28629	6.008	ug/L	99
16) Methylene chloride	2.68	84	26275	5.462	ug/L	94
17) trans-1,2-Dichloroethene	2.96	96	23482	5.448	ug/L	94
18) Methyl tert-butyl Ether	2.98	73	65452	5.175	ug/L	100
19) 1,1-Dichloroethane	3.42	63	45191	5.405	ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	23930	5.129	ug/L	99
22) 2-Butanone	4.25	43	36754	10.954	ug/L	96
23) Bromochloromethane	4.53	128	12300	4.882	ug/L	100
25) Chloroform	4.65	83	43841	5.083	ug/L	98
27) 1,2-Dichloroethane	5.38	62	34793	5.301	ug/L	97
29) Cyclohexane	4.97	56	32949	5.120	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	36135	5.099	ug/L	98
31) Carbon tetrachloride	5.11	117	31557	4.904	ug/L	99
33) Benzene	5.37	78	91721	5.118	ug/L	100
34) Trichloroethene	6.17	95	24702	5.210	ug/L	96
35) Methylcyclohexane	6.39	83	34114	4.863	ug/L	97
37) 1,2-Dichloropropane	6.41	63	25489	5.204	ug/L	100
38) Bromodichloromethane	6.74	83	32782	5.167	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	33699	4.695	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	65876	11.005	ug/L	96

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Manual Integrations
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MMDadoda
 8/26/2019 9:42:56 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	90968	4.832	ug/L	97
44) trans-1,3-Dichloropropene	7.86	75	30291	4.605	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	22722	4.949	ug/L	98
46) Tetrachloroethene	8.21	164	19675	5.191	ug/L	96
48) 2-Hexanone	8.35	43	48880	10.457	ug/L	96
49) Dibromochloromethane	8.46	129	25243	4.906	ug/L	97
50) 1,2-Dibromoethane	8.57	107	23990	4.930	ug/L	99
51) Chlorobenzene	9.10	112	64178	5.165	ug/L	98
52) Ethylbenzene	9.23	91	93040	4.648	ug/L	100
53) m,p-Xylene	9.36	106	33535	4.490	ug/L	98
54) o-xylene	9.76	106	32174	4.436	ug/L	91
55) Styrene	9.78	104	52752	4.251	ug/L	95
56) Isopropylbenzene	10.15	105	84005	4.432	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	39860	5.316	ug/L	97
59) 1,2,3-Trichloropropane	10.48	75	32206	5.383	ug/L	100
61) Bromoform	9.94	173	18248	5.315	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	45915	5.327	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	50542	5.665	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	45209	5.238	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	7412	5.029	ug/L	99
67) 1,3,5-Trichlorobenzene	12.87	180	34359	5.178	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	26486m	4.860	ug/L	} MP 08/26/19
69) Naphthalene	13.73	128	70143m	4.583	ug/L	
70) 1,2,3-Trichlorobenzene	13.98	180	27668	4.897	ug/L	

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