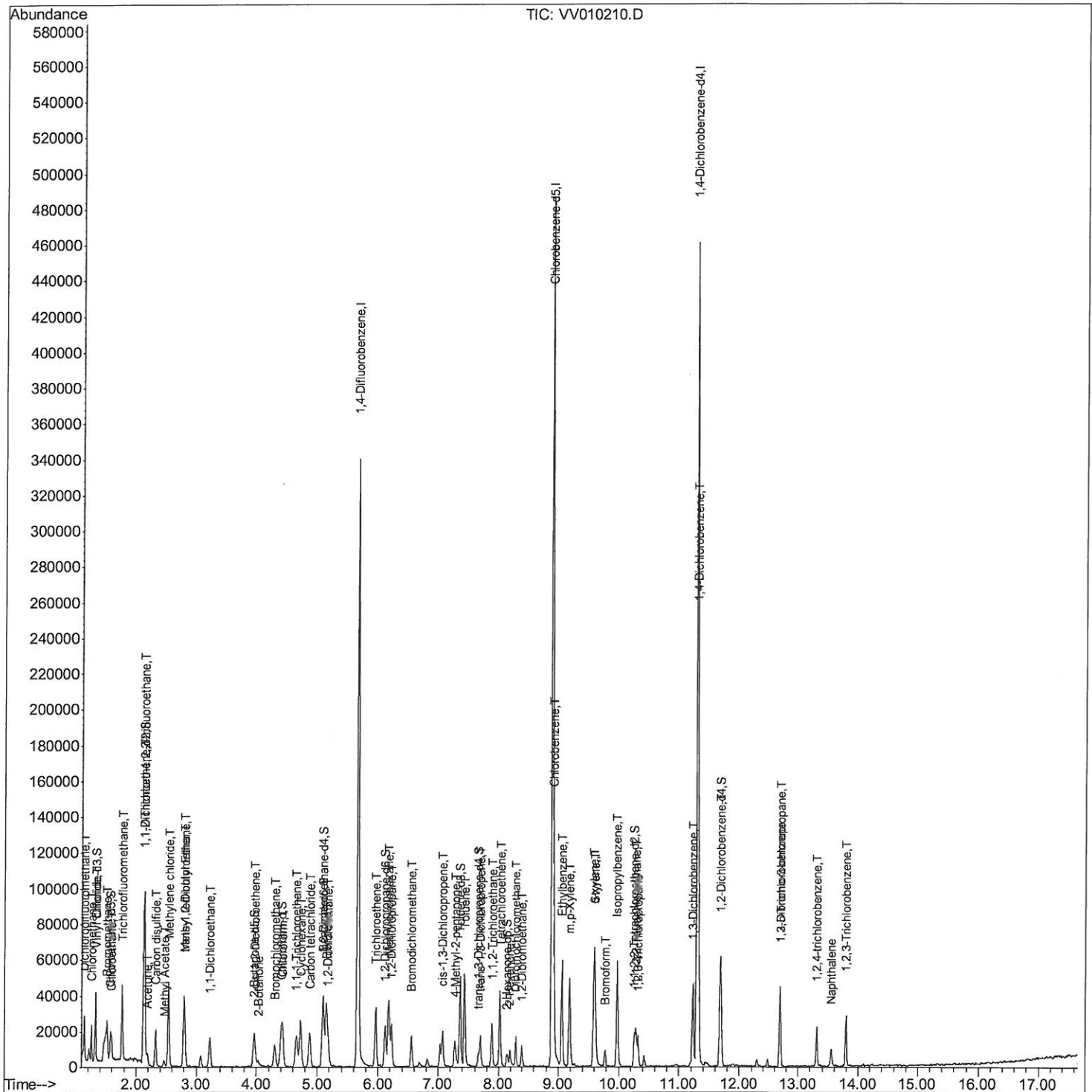


Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (QT Reviewed)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

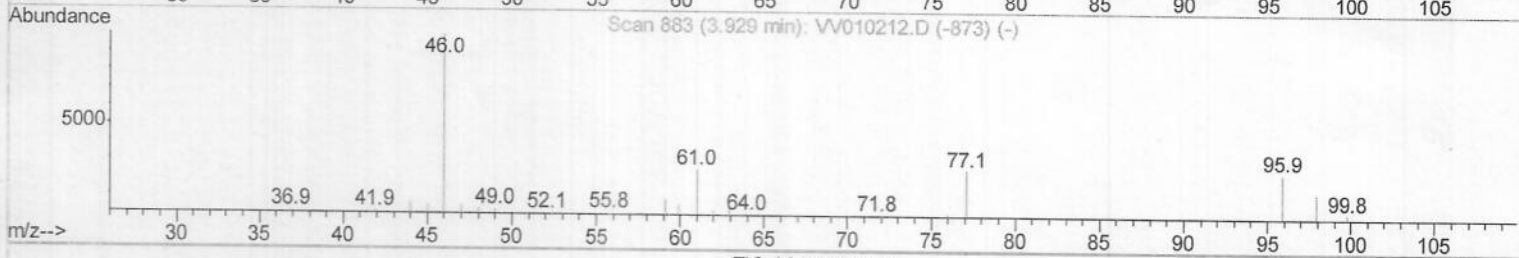
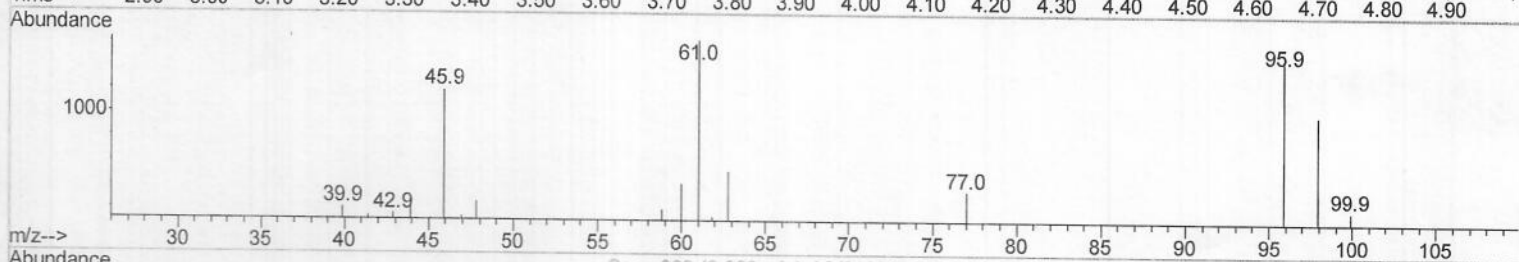
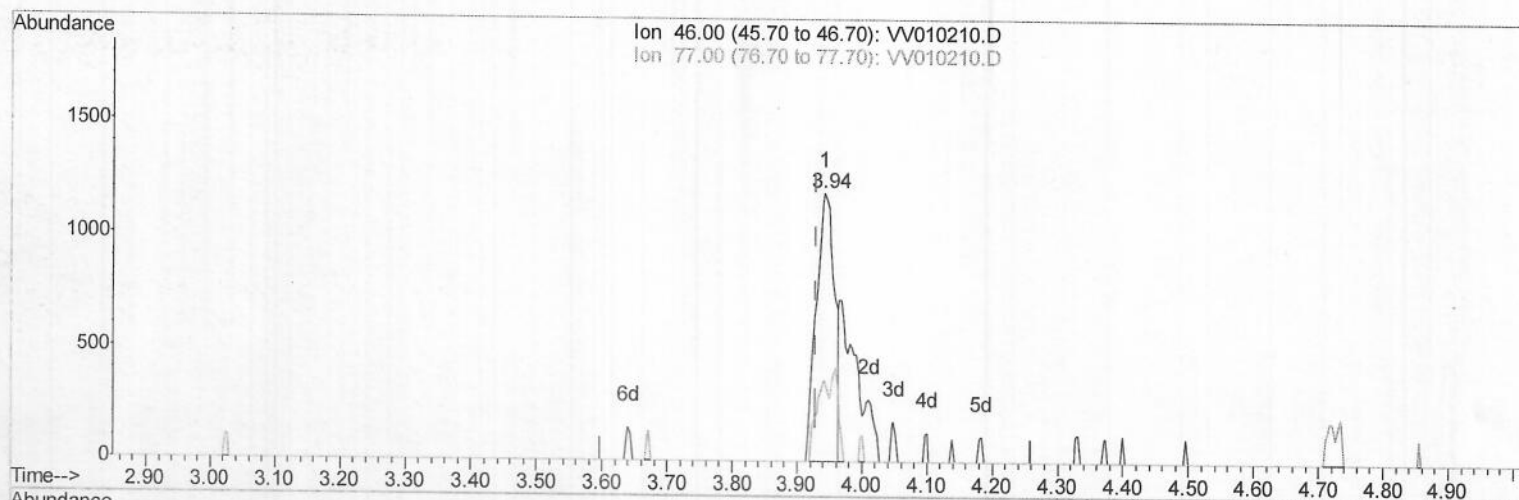
Quant Time: Apr 10 14:13:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(20) 2-Butanone-d5 (S)

3.942min (+0.013) 2.02ug/L

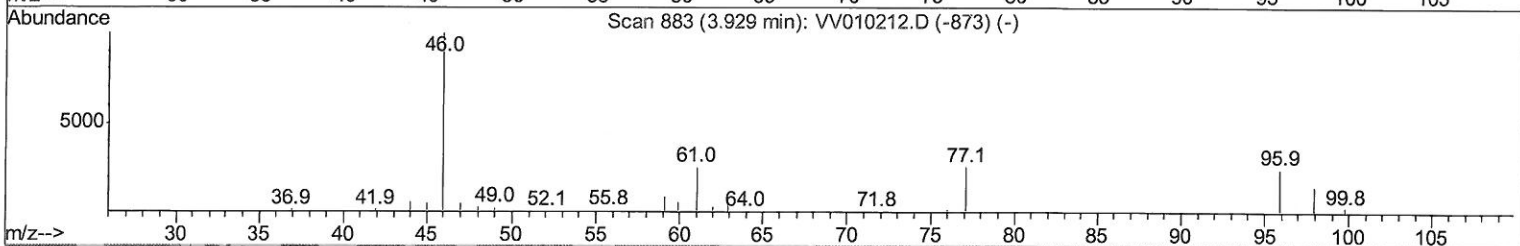
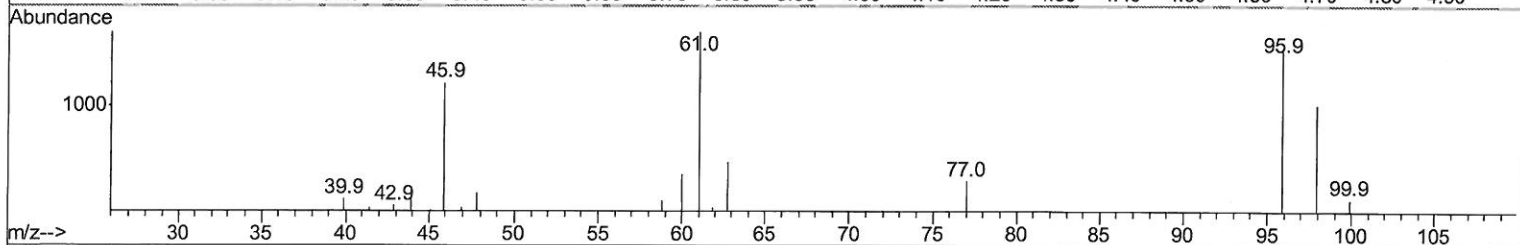
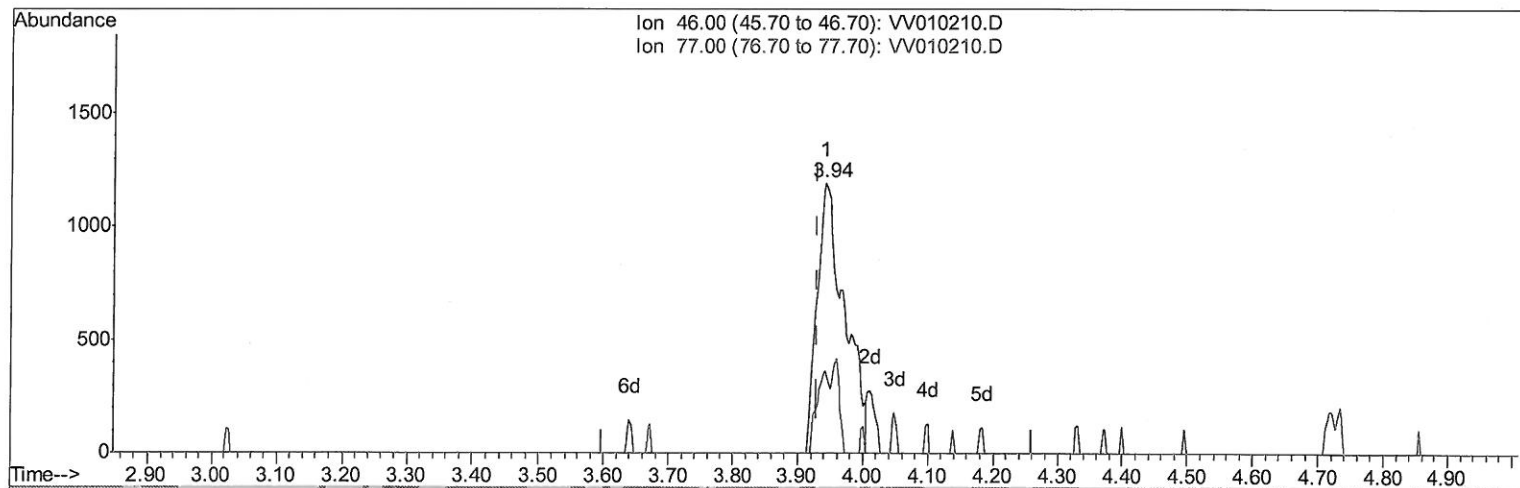
response 2284

Ion	Exp%	Act%
46.00	100	100
77.00	25.80	20.97
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(20) 2-Butanone-d5 (S)

3.942min (+0.013) 3.07ug/L m

response 3471

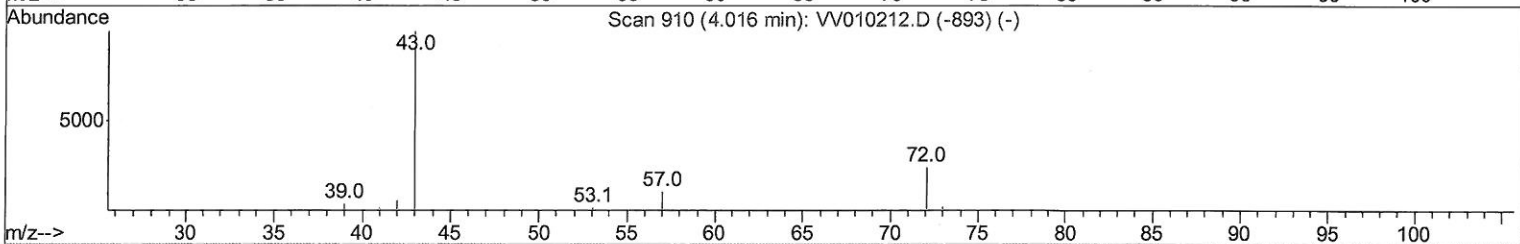
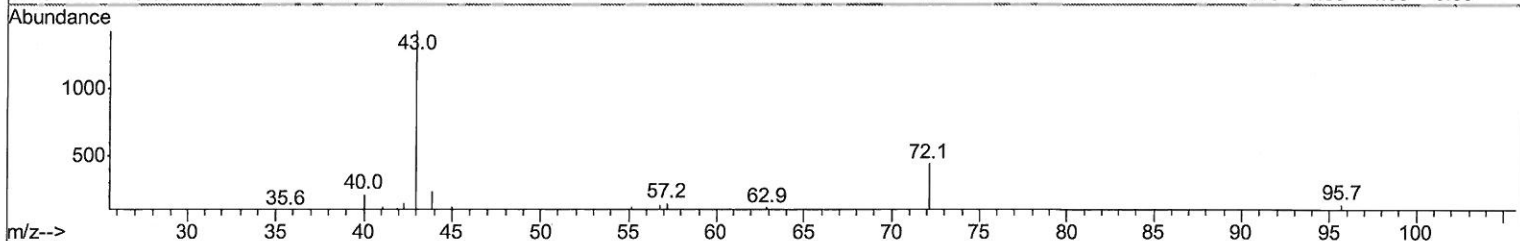
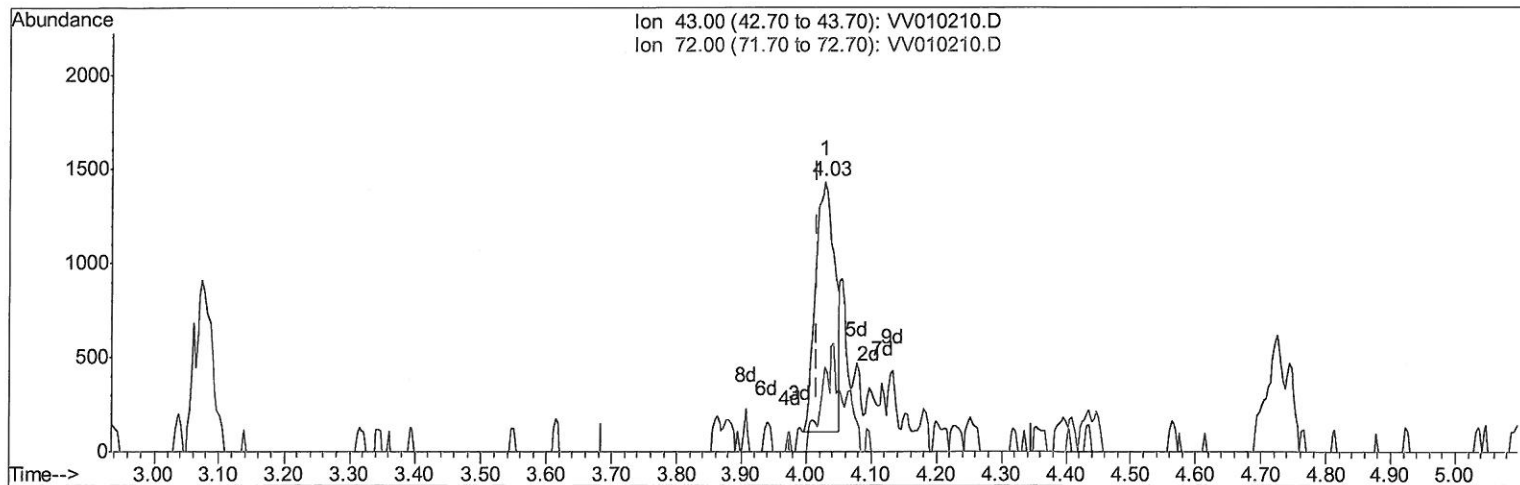
Ion	Exp%	Act%
46.00	100	100
77.00	25.80	13.80#
0.00	0.00	0.00
0.00	0.00	0.00

SYMD
4/11/19

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(21) 2-Butanone

4.029min (+0.013) 2.19ug/L

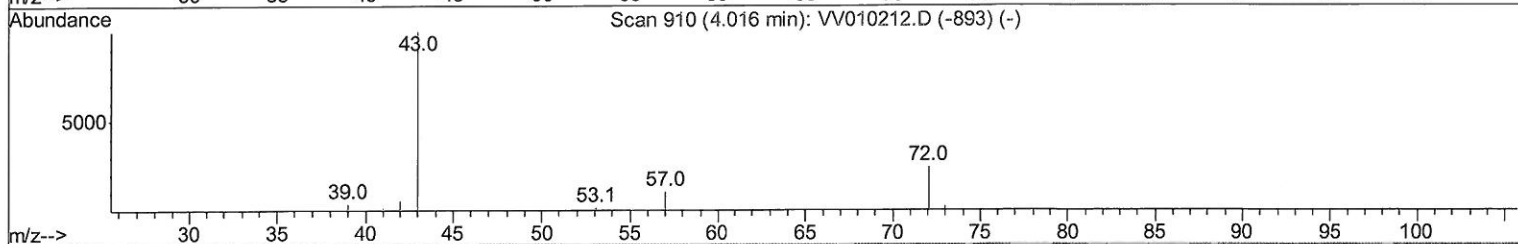
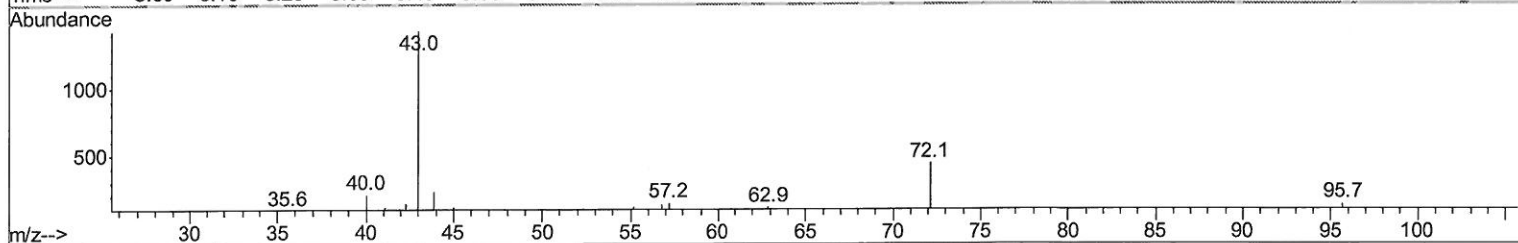
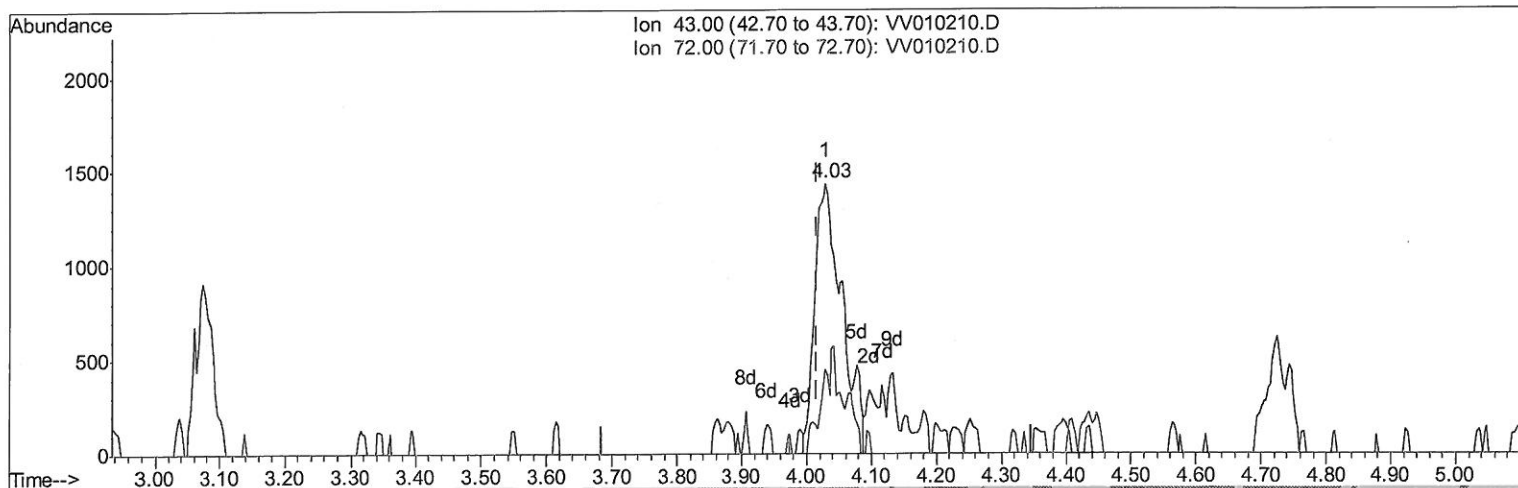
response 2680

Ion	Exp%	Act%
43.00	100	100
72.00	26.90	14.44
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(21) 2-Butanone

4.029min (+0.013) 3.42ug/L m

response 4179

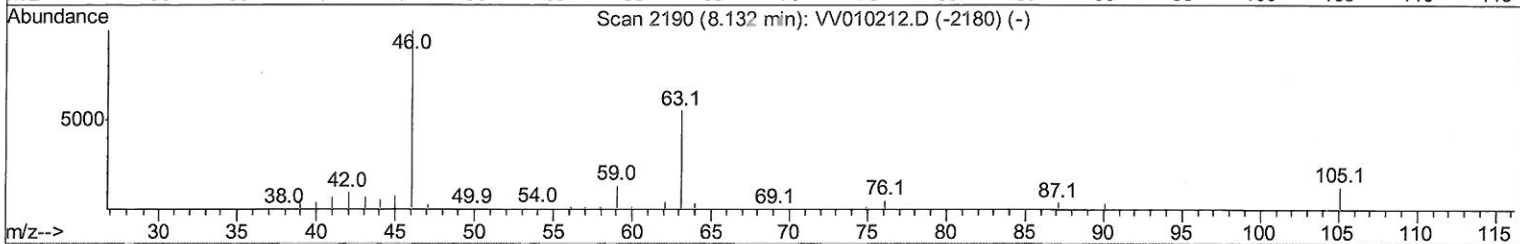
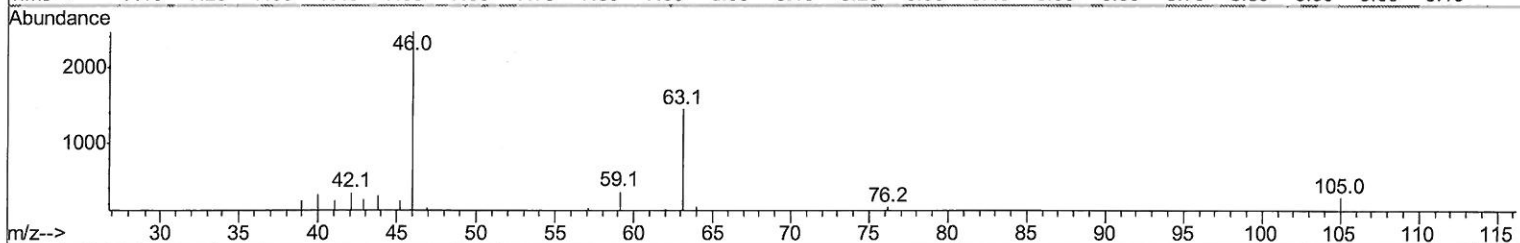
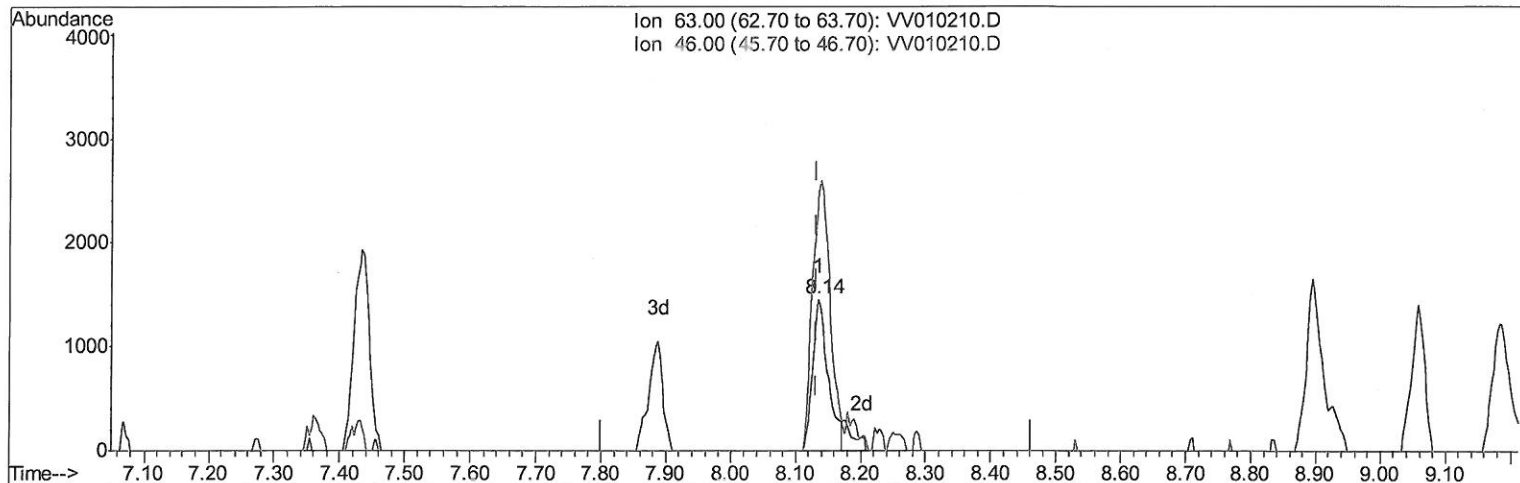
Ion	Exp%	Act%
43.00	100	100
72.00	26.90	9.26#
0.00	0.00	0.00
0.00	0.00	0.00

7MD
4/10/19

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(39) 2-Hexanone-d5 (S)

8.135min (+0.003) 2.91ug/L

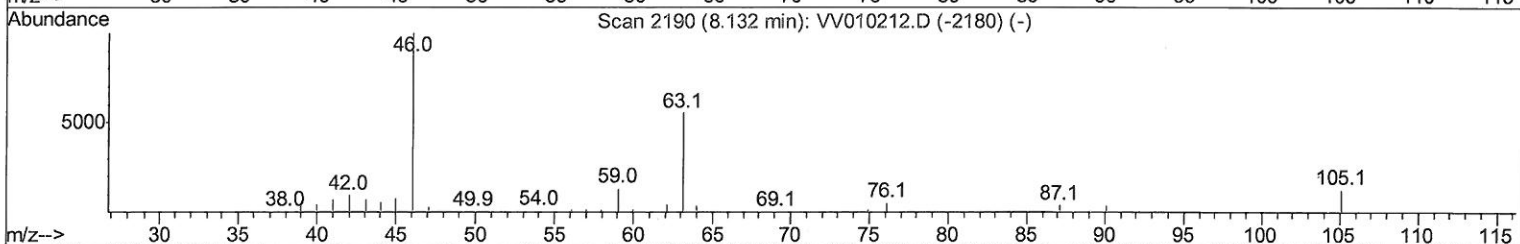
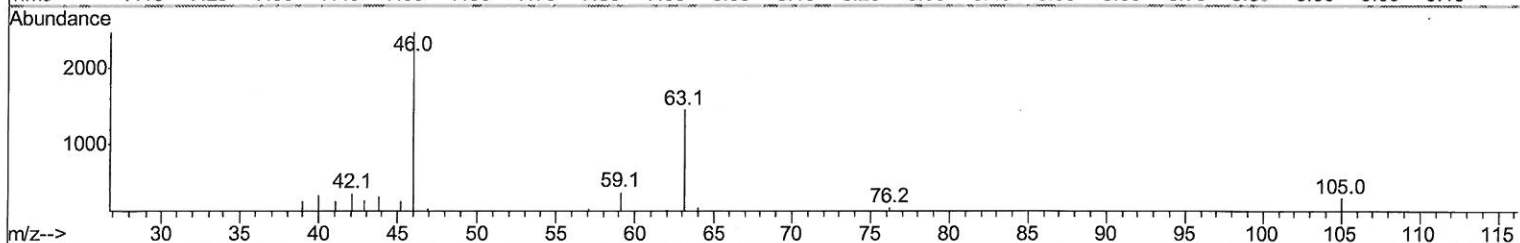
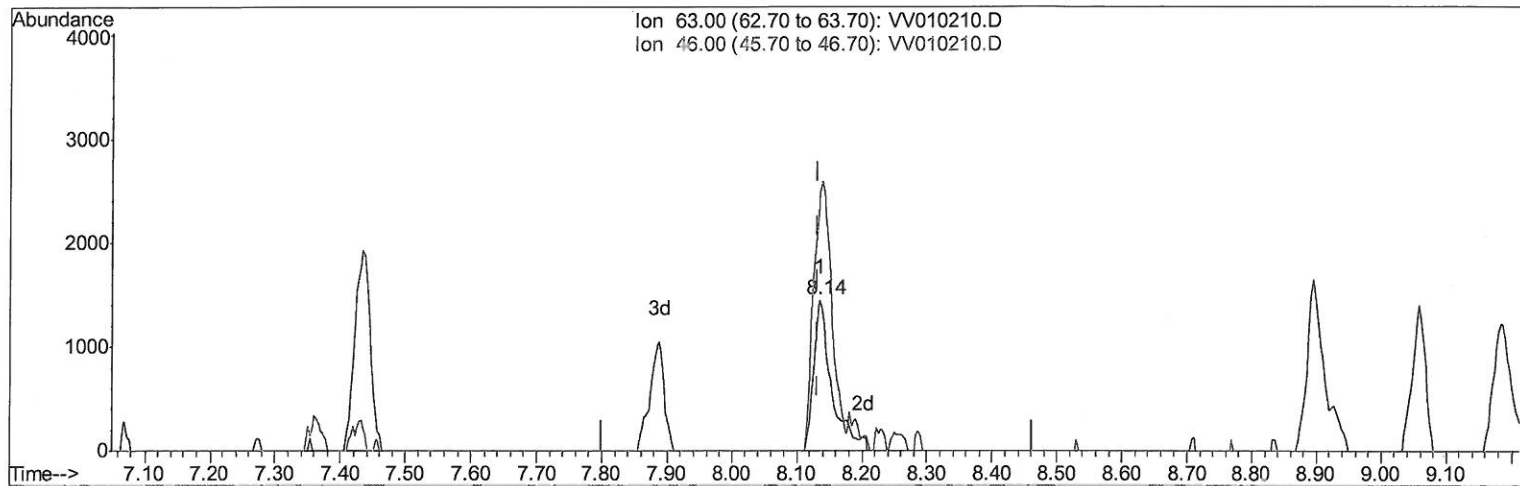
response 2458

Ion	Exp%	Act%
63.00	100	100
46.00	177.10	204.31
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(39) 2-Hexanone-d5 (S)

8.135min (+0.003) 3.32ug/L m

response 2812

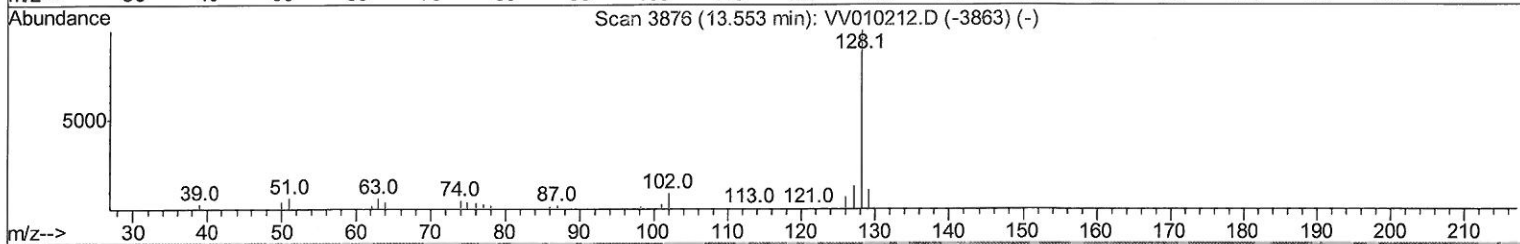
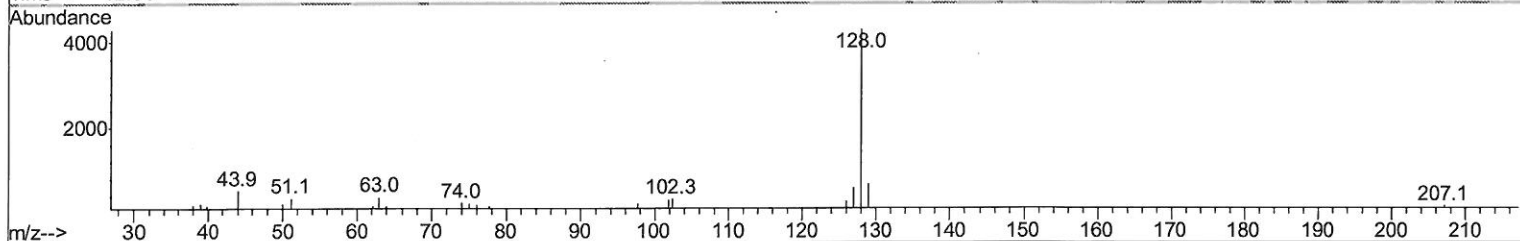
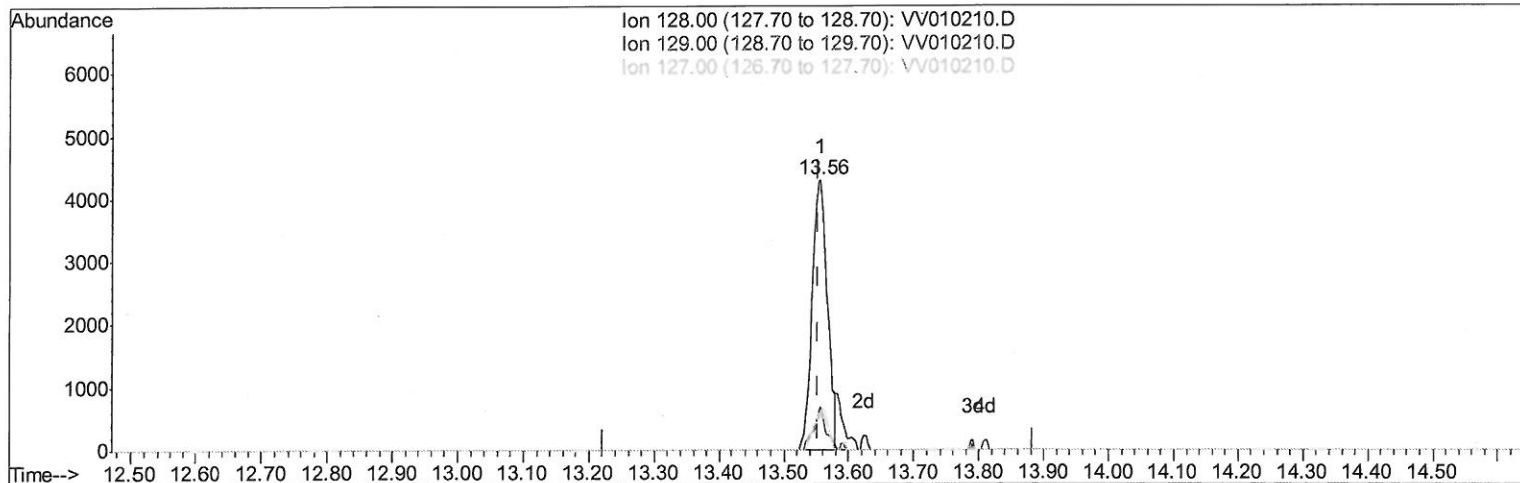
Ion	Exp%	Act%
63.00	100	100
46.00	177.10	178.59
0.00	0.00	0.00
0.00	0.00	0.00

7 MD
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(69) Naphthalene

13.556min (+0.003) 0.97ug/L

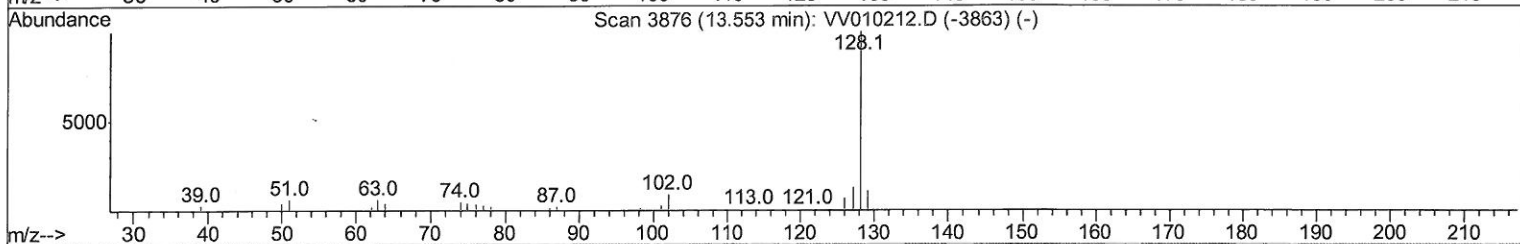
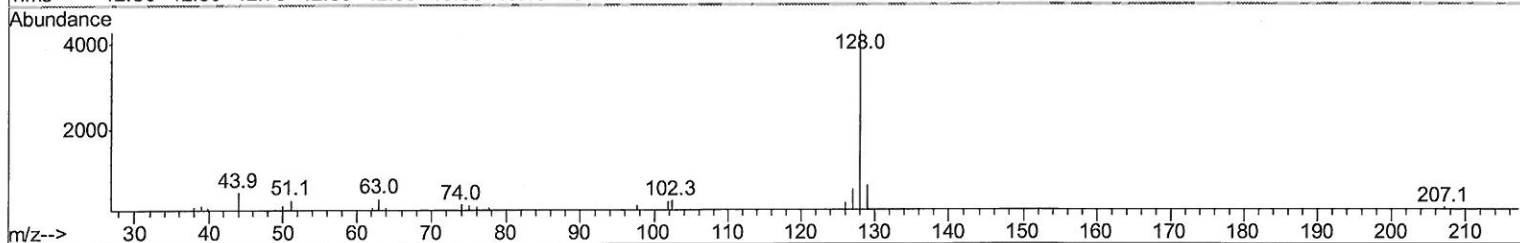
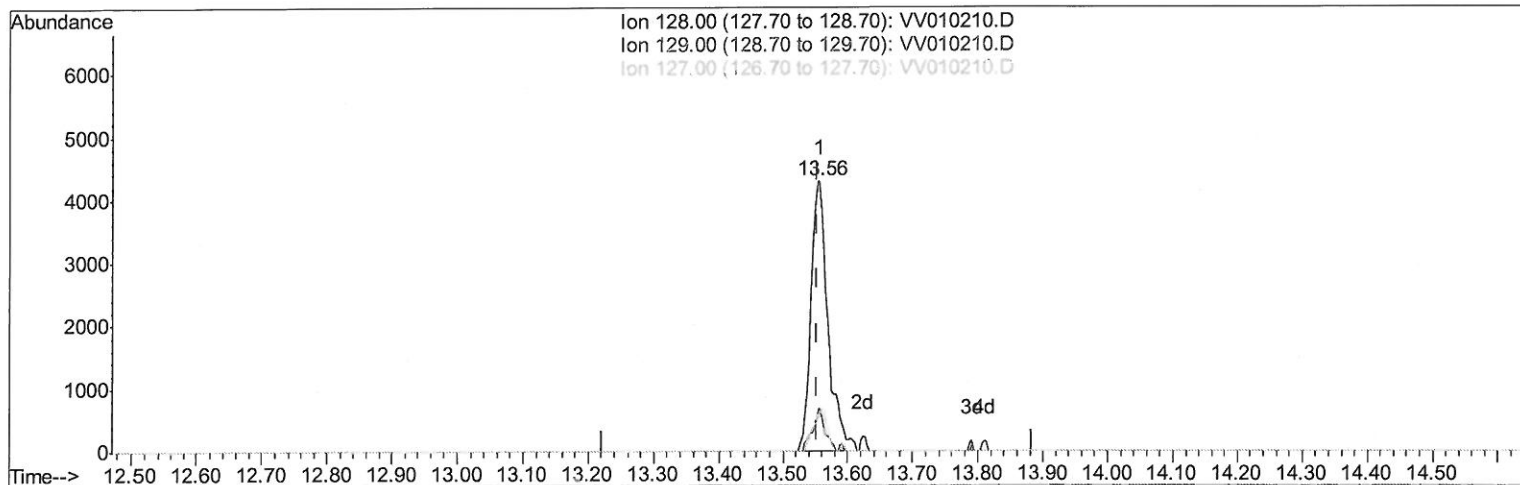
response 6964

Ion	Exp%	Act%
128.00	100	100
129.00	11.20	12.88
127.00	13.20	13.63
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:00:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(69) Naphthalene

13.556min (+0.003) 1.07ug/L m

response 7677

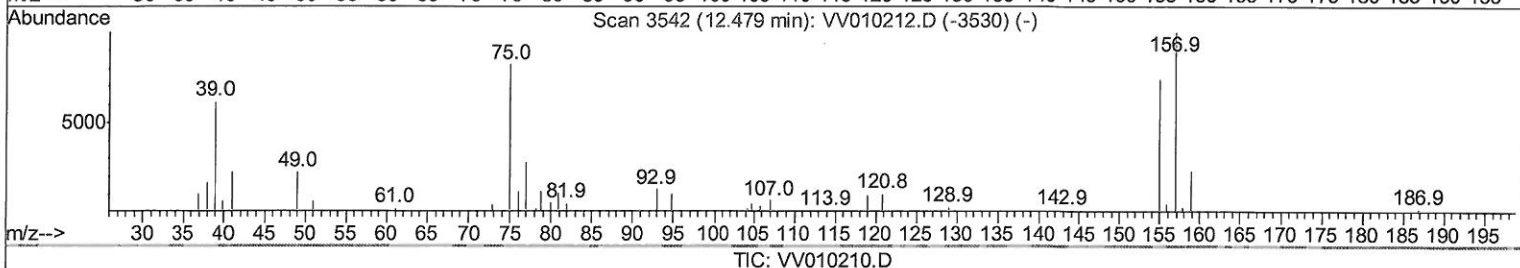
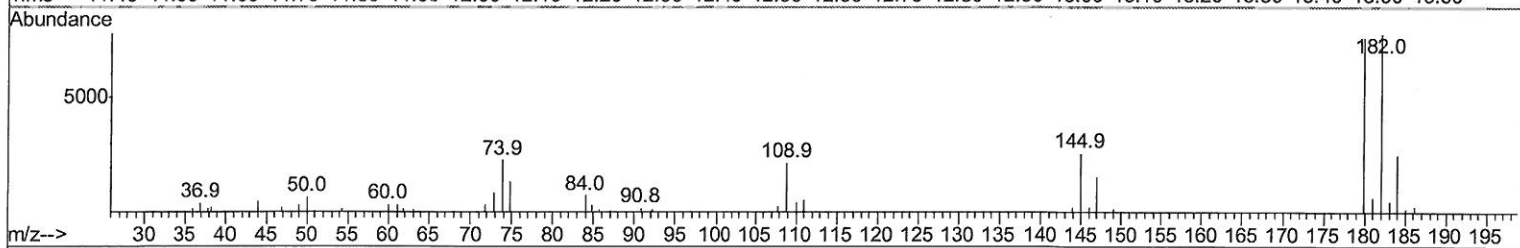
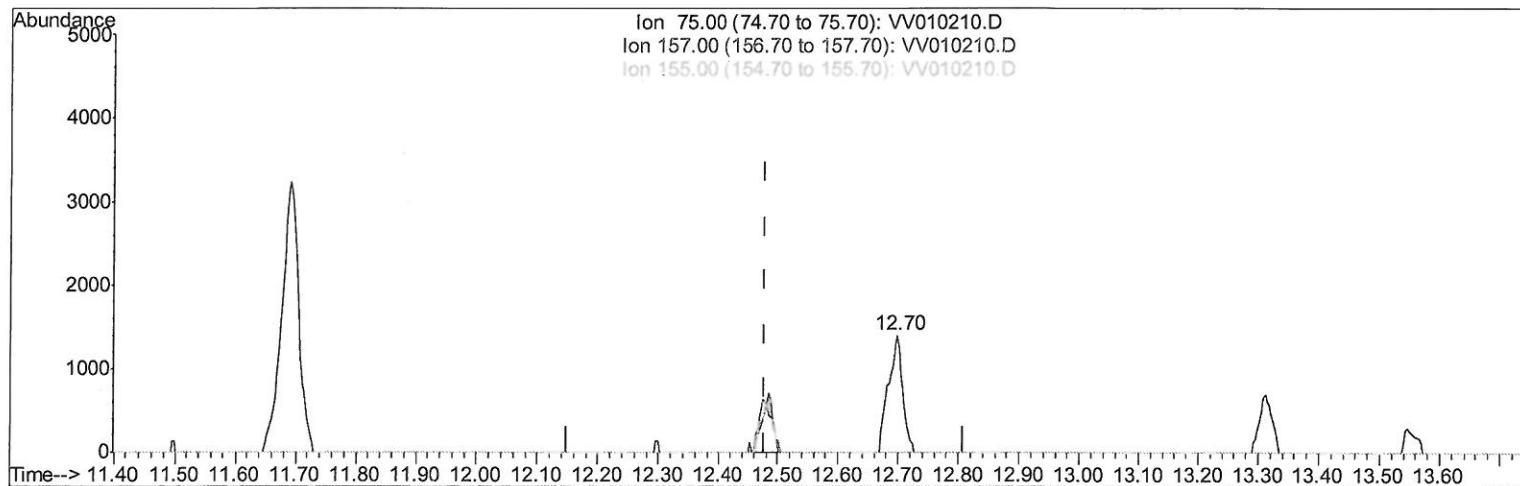
Ion	Exp%	Act%
128.00	100	100
129.00	11.20	11.68
127.00	13.20	12.36
0.00	0.00	0.00

7 MD
4/11/19

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:13:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



(66) 1,2-Dibromo-3-chloropropane (T)

12.698min (+0.219) 4.53ug/L

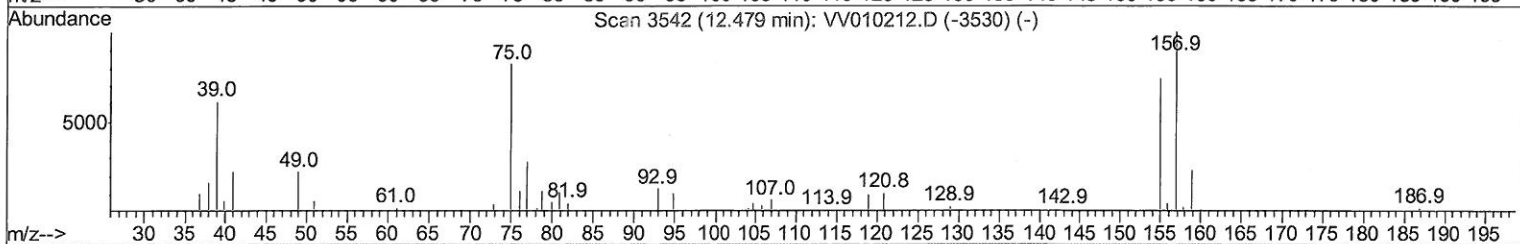
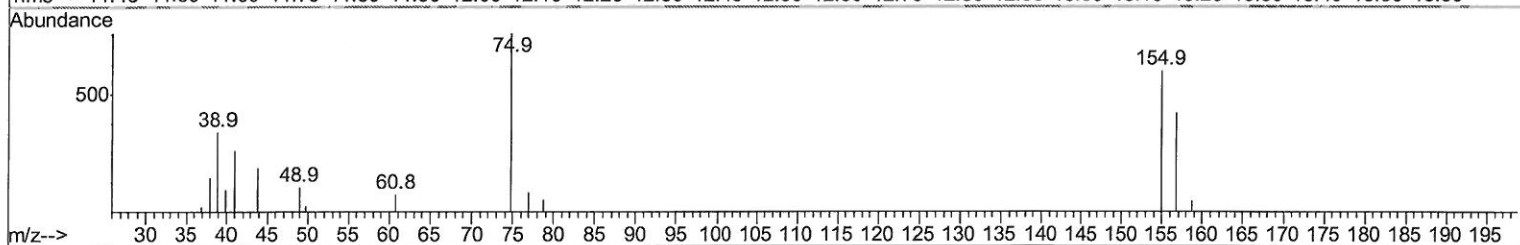
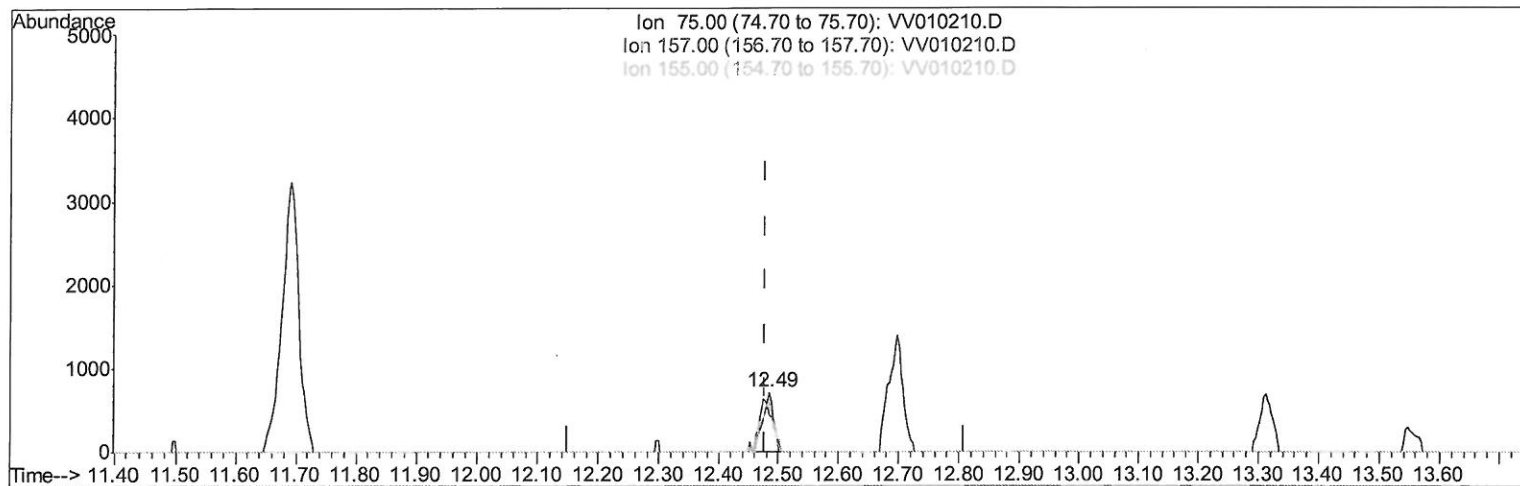
response 2282

Ion	Exp%	Act%
75.00	100	100
157.00	121.80	0.00#
155.00	90.60	0.00#
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (Qedit)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:13:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration



TIC: VV010210.D

(66) 1,2-Dibromo-3-chloropropane (T)

12.485min (+0.007) 1.83ug/L m

response 919

Ion	Exp%	Act%
75.00	100	100
157.00	121.80	61.61#
155.00	90.60	81.87
0.00	0.00	0.00

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4/11/19

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (QT Reviewed)
Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:33:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	5.66	114	296535	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	275623	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	128776	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	9694	2.44	ug/L	0.00
7) Chloroethane-d5	1.57	69	8092	1.64	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	23546	2.35	ug/L	0.00
20) 2-Butanone-d5	3.94	46	3471m	3.07	ug/L	0.01
24) Chloroform-d	4.40	84	16762	2.24	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	9893	2.37	ug/L	0.00
29) Benzene-d6	5.10	84	34958	2.45	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	11066	2.62	ug/L	0.00
37) Toluene-d8	7.36	98	33163	2.41	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	3603	2.00	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	2812m	3.32	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	8206	1.97	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	12335	2.46	ug/L	0.00

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Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	12702	2.962	ug/L	95
3) Chloromethane	1.25	50	10092	2.640	ug/L	98
5) Vinyl chloride	1.33	62	10941	2.628	ug/L	94
6) Bromomethane	1.52	94	8195	1.740	ug/L	99
8) Chloroethane	1.59	64	6560	1.803	ug/L	98
9) Trichlorofluoromethane	1.77	101	23277	2.713	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	12168	2.550	ug/L	98
12) 1,1-Dichloroethene	2.14	96	9902	2.442	ug/L	94
13) Acetone	2.19	43	5497	4.922	ug/L	88
14) Carbon disulfide	2.32	76	21699	2.579	ug/L #	94
15) Methyl Acetate	2.46	43	3587	2.007	ug/L	98
16) Methylene chloride	2.54	84	19792	3.799	ug/L	96
17) Methyl tert-butyl Ether	2.80	73	19354	2.229	ug/L #	92
18) trans-1,2-Dichloroethene	2.79	96	9338	2.637	ug/L	86
19) 1,1-Dichloroethane	3.23	63	15321	2.546	ug/L	94
21) 2-Butanone	4.03	43	4179m	3.417	ug/L	95
22) cis-1,2-Dichloroethene	3.97	96	10147	2.581	ug/L	95
23) Bromochloromethane	4.30	128	4590	2.406	ug/L #	84
25) Chloroform	4.43	83	19771	2.932	ug/L	99
27) 1,2-Dichloroethane	5.18	62	10857	2.361	ug/L #	94
30) Cyclohexane	4.73	56	13131	2.639	ug/L	94
31) 1,1,1-Trichloroethane	4.66	97	14291	2.542	ug/L #	77
32) Carbon tetrachloride	4.87	117	13138	2.615	ug/L	97
34) Benzene	5.15	78	35179	2.610	ug/L	100
35) Trichloroethene	5.96	95	10135	2.612	ug/L	95
36) Methylcyclohexane	6.17	83	13939	2.398	ug/L	88
40) 1,2-Dichloropropane	6.22	63	9212	2.705	ug/L #	90
41) Bromodichloromethane	6.56	83	10642	2.403	ug/L	91
42) cis-1,3-Dichloropropene	7.07	75	10916	2.214	ug/L	91
43) 4-Methyl-2-pentanone	7.27	43	9899	3.929	ug/L	97

MO
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV041019\
Quantitation Report (QT Reviewed)

Data File : VV010210.D
Acq On : 10 Apr 2019 12:14
Operator : SY/MD
Sample : VSTD2.588
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 14:33:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041019S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 10 13:55:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
44) Toluene	7.43	91	39297	2.598	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	9017	2.151	ug/L	87
46) 1,1,2-Trichloroethane	7.88	97	7123	2.359	ug/L	87
47) Tetrachloroethene	8.02	164	9481	2.920	ug/L	93
49) 2-Hexanone	8.18	43	5742	3.190	ug/L #	96
50) Dibromochloromethane	8.29	129	7710	2.278	ug/L	95
51) 1,2-Dibromoethane	8.40	107	7063	2.367	ug/L #	95
52) Chlorobenzene	8.93	112	27246	2.641	ug/L	99
53) Ethylbenzene	9.06	91	41220	2.485	ug/L	98
54) m,p-Xylene	9.18	106	15523	2.404	ug/L	95
55) o-xylene	9.59	106	16275	2.602	ug/L	95
56) Styrene	9.61	104	22380	2.163	ug/L	96
57) Isopropylbenzene	9.98	105	39365	2.386	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	8320	2.145	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	6586	2.368	ug/L	96
62) Bromoform	9.78	173	4225	2.333	ug/L #	90
63) 1,3-Dichlorobenzene	11.23	146	19911	2.634	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	19971	2.536	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	18733	2.523	ug/L	92
66) 1,2-Dibromo-3-chloropropan	12.49	75	919m	1.825	ug/L	} MD 4/11/19
67) 1,3,5-Trichlorobenzene	12.69	180	13211	2.354	ug/L	
68) 1,2,4-trichlorobenzene	13.31	180	7000	1.629	ug/L	
69) Naphthalene	13.56	128	7677m	1.074	ug/L	
70) 1,2,3-Trichlorobenzene	13.80	180	6708	1.672	ug/L	93

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