

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042219\
 Data File : VV010428.D
 Acq On : 22 Apr 2019 23:01
 Operator : SY/MD
 Sample : K2456-16
 Misc : 5.01G/10mL/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GAHN6

Quant Time: Apr 23 07:01:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM042219S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 23 06:57:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	750	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.91	117	756	25.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	11.30	152	140	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	846	81.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	327.48%#
7) Chloroethane-d5	1.59	69	802	99.78	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	399.12%#
10) 1,1-Dichloroethene-d2	2.14	63	1331	68.99	ug/L	0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	=	275.96%#
20) 2-Butanone-d5	0.00	46	0	0.00	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.00%#
24) Chloroform-d	4.41	84	1860	101.48	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	405.92%#
26) 1,2-Dichloroethane-d4	5.08	65	219	19.48	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	77.92%
29) Benzene-d6	5.11	84	1495	42.83	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	171.32%#
33) 1,2-Dichloropropane-d6	6.12	67	381	37.01	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	148.04%#
37) Toluene-d8	7.36	98	316	8.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	35.16%
38) trans-1,3-Dichloropropene-	7.69	79	57	11.24	ug/L	0.02
Spiked Amount	25.000	Range	30 - 135	Recovery	=	44.96%
39) 2-Hexanone-d5	0.00	63	0	0.00	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.00%#
48) 1,1,2,2-Tetrachloroethane-	10.26	84	87	8.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	34.68%#
61) 1,2-Dichlorobenzene-d4	11.68	152	131	24.62	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.48%

Target Compounds

					Ovalue
3) Chloromethane	1.26	50	179	18.860	ug/L # 43
6) Bromomethane	1.54	94	205	35.067	ug/L # 2
8) Chloroethane	1.59	64	24	3.807	ug/L # 43
13) Acetone	2.18	43	95	36.685	ug/L # 41
15) Methyl Acetate	2.42	43	72	18.679	ug/L # 51
16) Methylene chloride	2.55	84	134	12.183	ug/L # 61
19) 1,1-Dichloroethane	3.28	63	102	6.833	ug/L # 50
21) 2-Butanone	3.86	43	58	21.015	ug/L # 51
30) Cyclohexane	4.50	56	42	3.136	ug/L # 1
36) Methylcyclohexane	6.13	83	71	4.690	ug/L # 19
43) 4-Methyl-2-pentanone	7.21	43	43	7.041	ug/L # 1
44) Toluene	7.45	91	42	1.040	ug/L # 35
49) 2-Hexanone	8.16	43	46	10.609	ug/L # 42
53) Ethylbenzene	9.18	91	76	1.610	ug/L # 42
54) m,p-Xylene	9.19	106	94	5.079	ug/L # 1
55) o-xylene	9.60	106	84	4.556	ug/L # 87
69) Naphthalene	13.56	128	898	113.205	ug/L # 76

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Quant Title : VOC Analysis
QLast Update : Tue Apr 23 06:57:14 2019
Response via : Initial Calibration

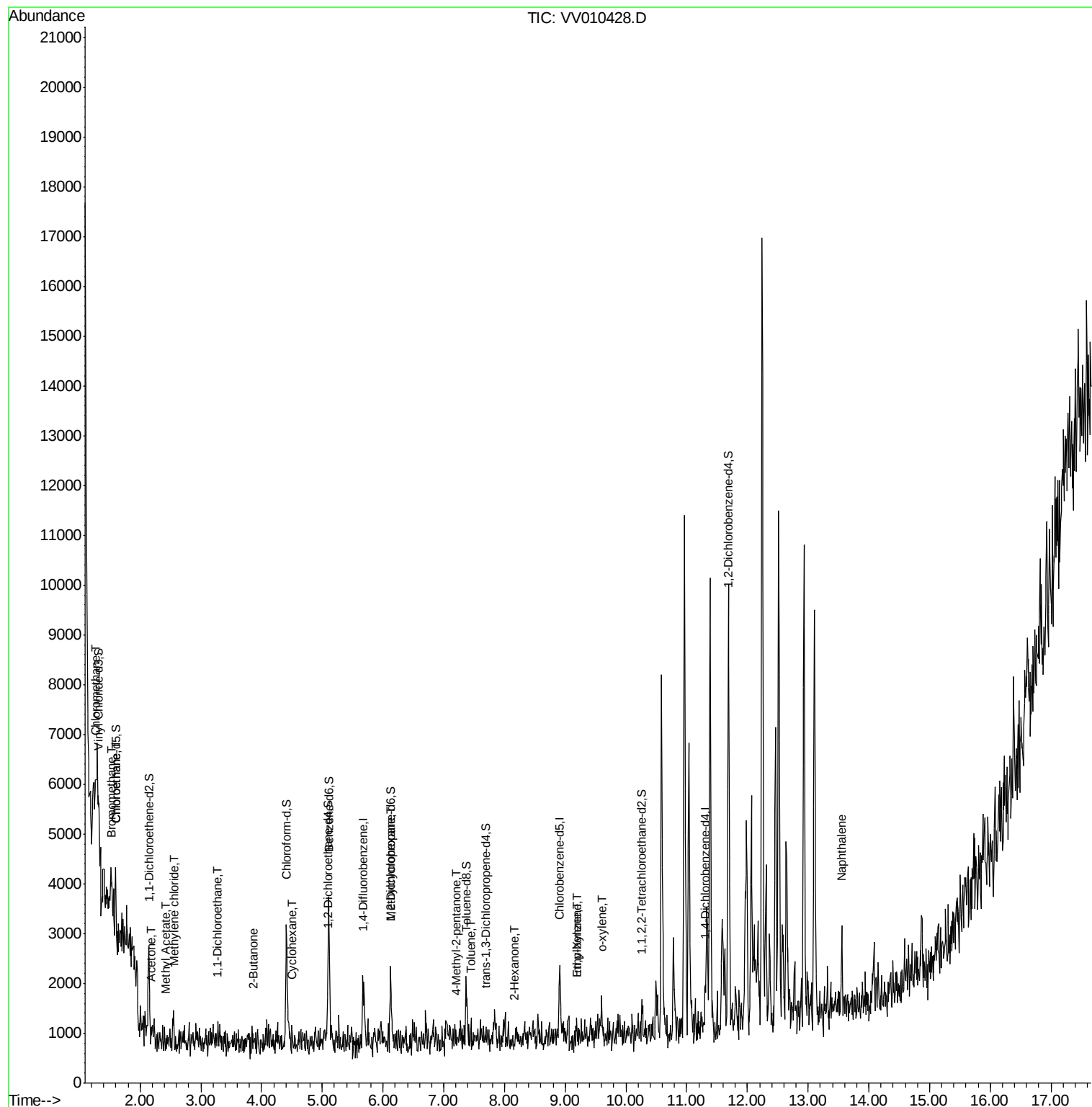
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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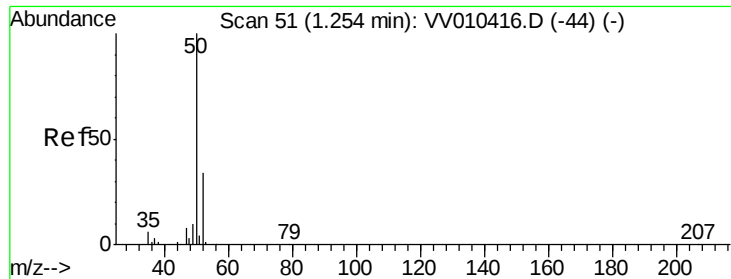
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Tue Apr 23 06:57:14 2019
Response via : Initial Calibration





#3

Chloromethane

Concen: 18.860 ug/L

RT: 1.26 min Scan# 53

Delta R.T. 0.01 min

Lab File: VV010428.D

Acq: 22 Apr 2019 23:01

Instrument :

MSVOA_V

ClientSampleId :

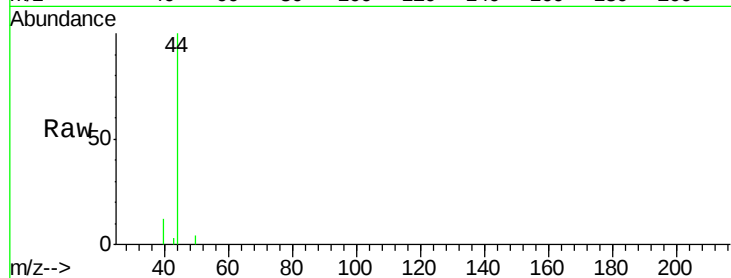
GAHN6

Tot Ion: 50 Resp: 179

Ion Ratio Lower Upper

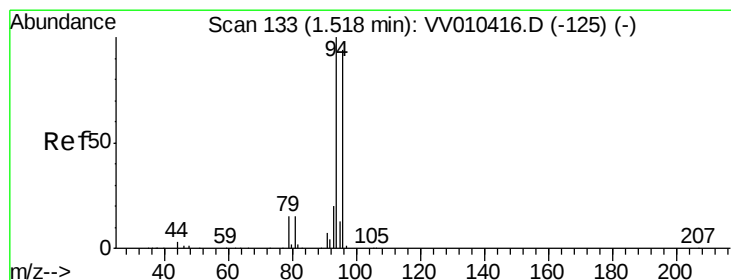
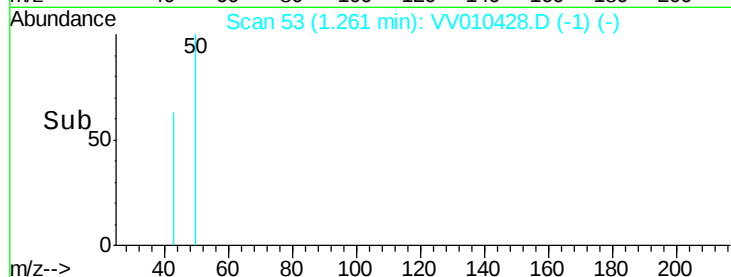
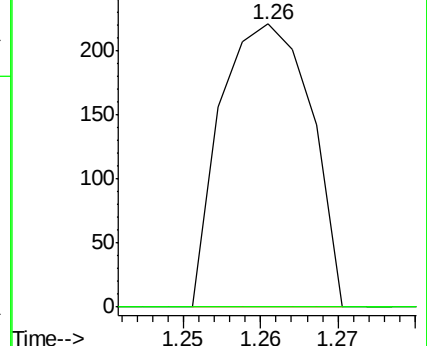
50 100

52 0.0 22.3 41.5#



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



#6

Bromomethane

Concen: 35.067 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.02 min

Lab File: VV010428.D

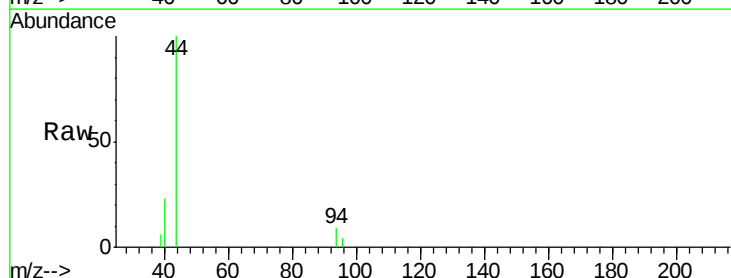
Acq: 22 Apr 2019 23:01

Tgt Ion: 94 Resp: 205

Ion Ratio Lower Upper

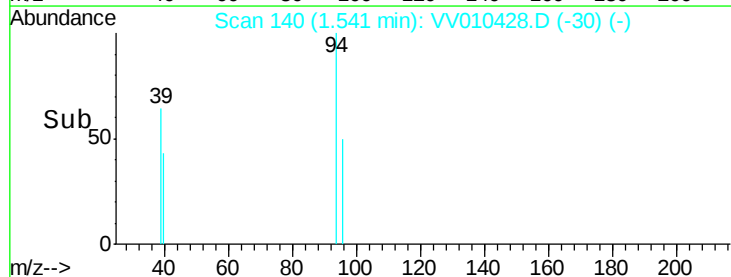
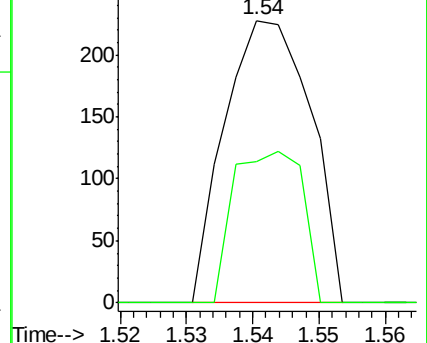
94 100

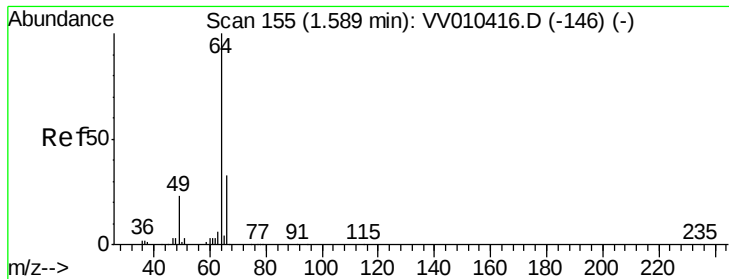
96 0.0 9.5 180.3#



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 3.807 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.00 min

Lab File: VV010428.D

Acq: 22 Apr 2019 23:01

Instrument :

MSVOA_V

ClientSampled :

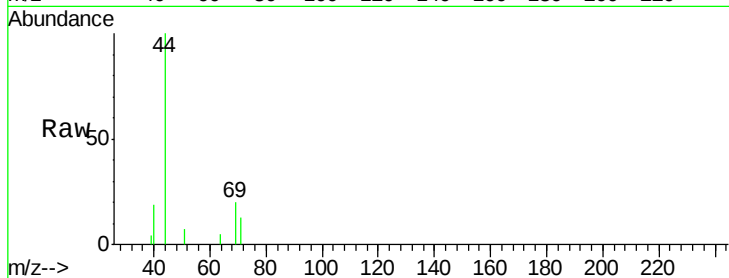
GAHN6

Tot Ion: 64 Resp: 24

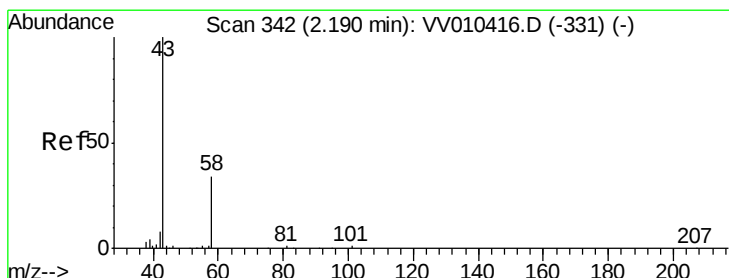
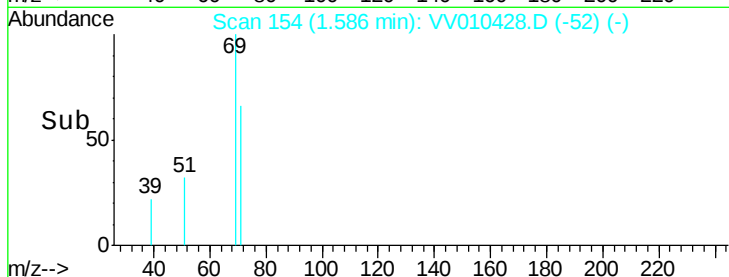
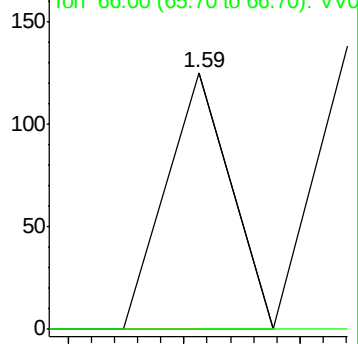
Ion Ratio Lower Upper

64 100

66 0.0 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VV010416.D (-146) (-)



#13

Acetone

Concen: 36.685 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.01 min

Lab File: VV010428.D

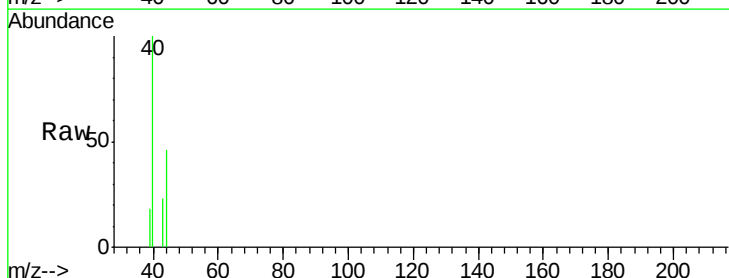
Acq: 22 Apr 2019 23:01

Tgt Ion: 43 Resp: 95

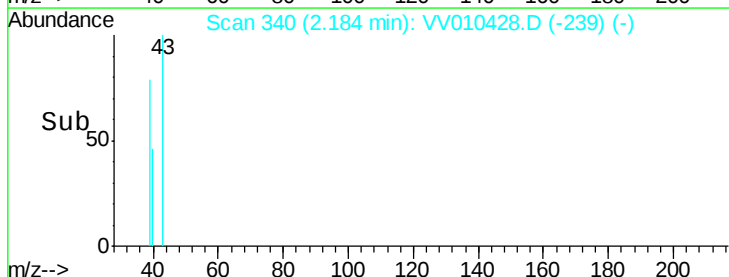
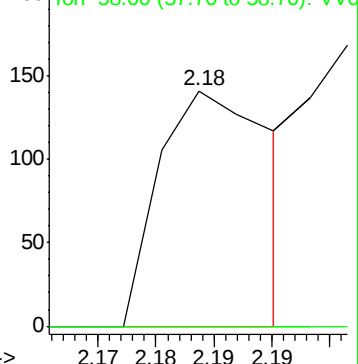
Ion Ratio Lower Upper

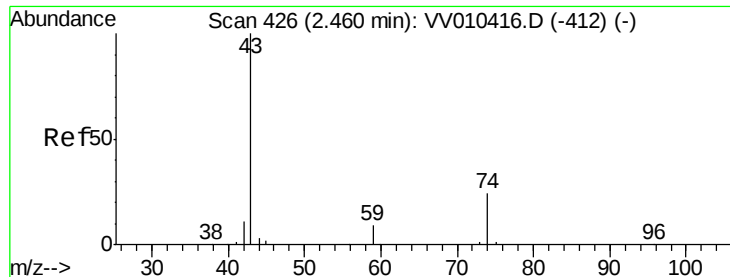
43 100

58 0.0 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VV010416.D (-331) (-)

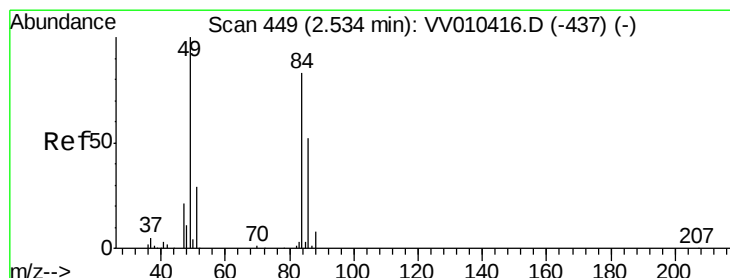
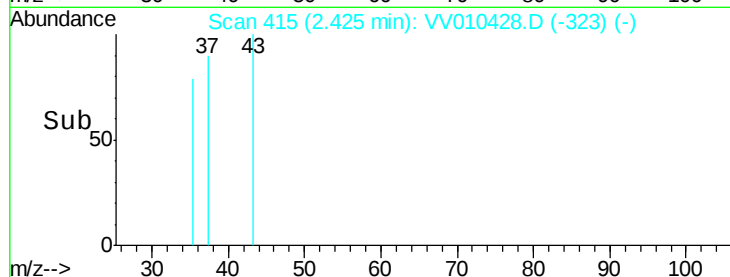
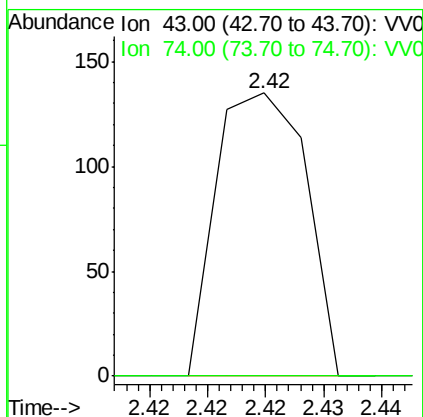
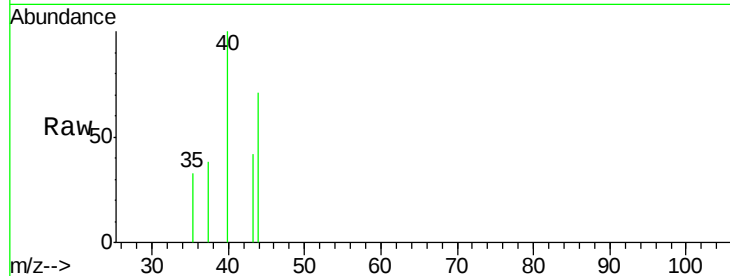




#15
Methvl Acetate
Concen: 18.679 ug/L
RT: 2.42 min Scan# 415
Delta R.T. -0.04 min
Lab File: VV010428.D
Acq: 22 Apr 2019 23:01

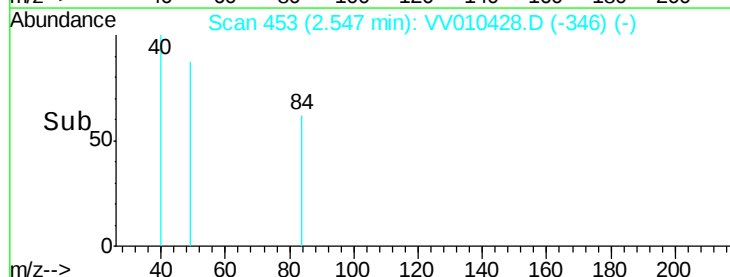
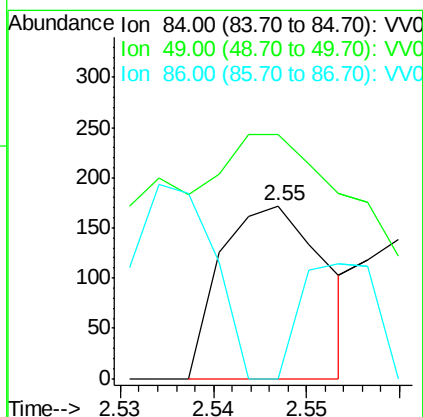
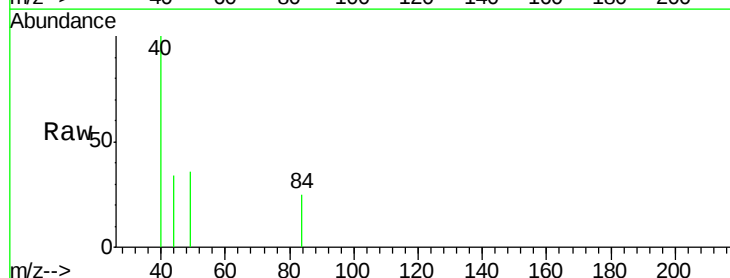
Instrument :
MSVOA_V
ClientSampled :
GAHN6

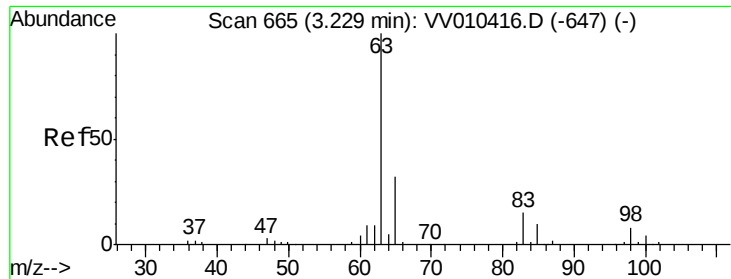
Tot Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#16
Methylene chloride
Concen: 12.183 ug/L
RT: 2.55 min Scan# 453
Delta R.T. 0.01 min
Lab File: VV010428.D
Acq: 22 Apr 2019 23:01

Tgt Ion: 84 Resp: 134
Ion Ratio Lower Upper
84 100
49 141.3 85.0 158.0
86 0.0 43.9 81.5#

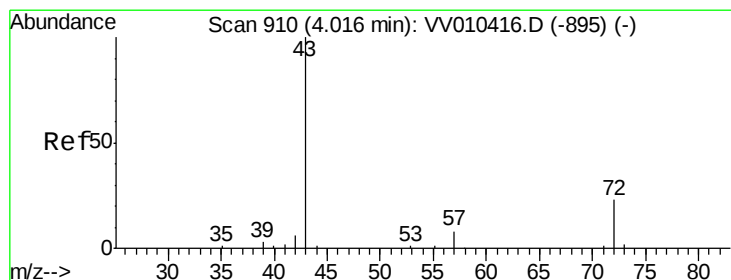
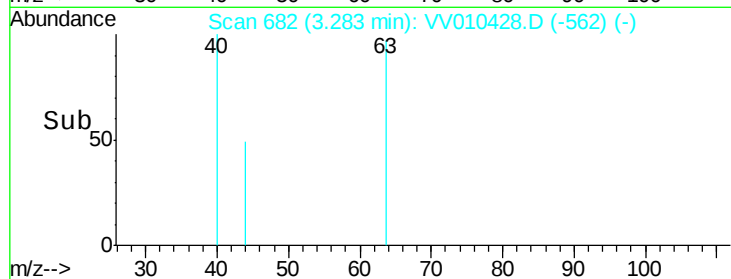
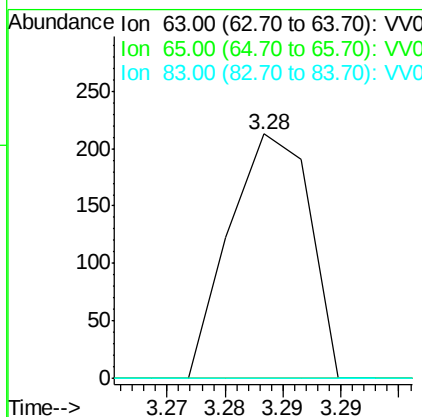
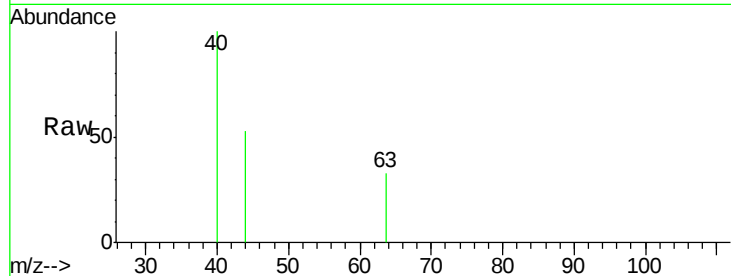




#19
 1,1-Dichloroethane
 Concen: 6.833 ug/L
 RT: 3.28 min Scan# 682
 Delta R.T. 0.05 min
 Lab File: VV010428.D
 Acq: 22 Apr 2019 23:01

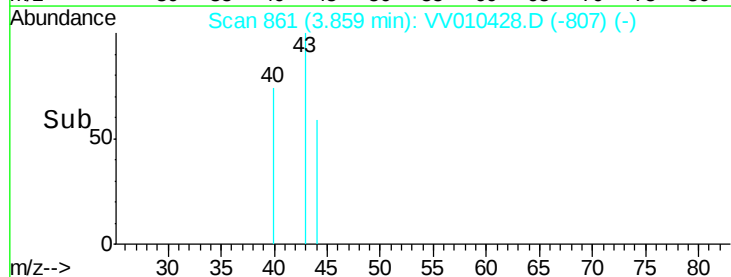
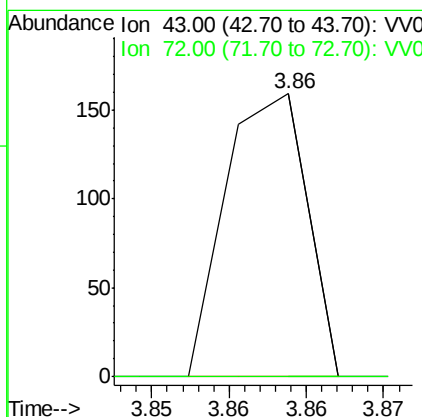
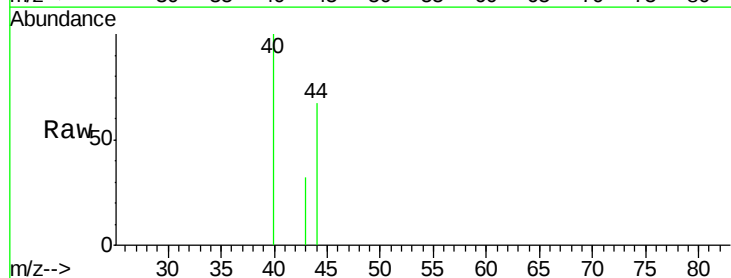
Instrument :
 MSVOA_V
 ClientSampled :
 GAHN6

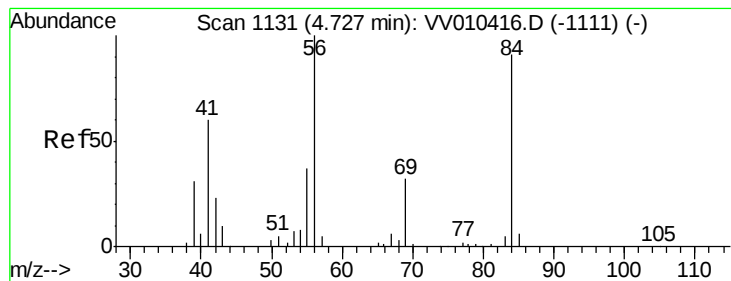
Tot Ion: 63 Resp: 102
 Ion Ratio Lower Upper
 63 100
 65 0.0 22.0 41.0#
 83 0.0 9.8 18.2#



#21
 2-Butanone
 Concen: 21.015 ug/L
 RT: 3.86 min Scan# 861
 Delta R.T. -0.16 min
 Lab File: VV010428.D
 Acq: 22 Apr 2019 23:01

Tgt Ion: 43 Resp: 58
 Ion Ratio Lower Upper
 43 100
 72 0.0 12.2 36.4#





#30

Cyclohexane

Concen: 3.136 ug/L

RT: 4.50 min Scan# 1061

Delta R.T. -0.23 min

Lab File: VV010428.D

Acq: 22 Apr 2019 23:01

Instrument :

MSVOA_V

ClientSampled :

GAHN6

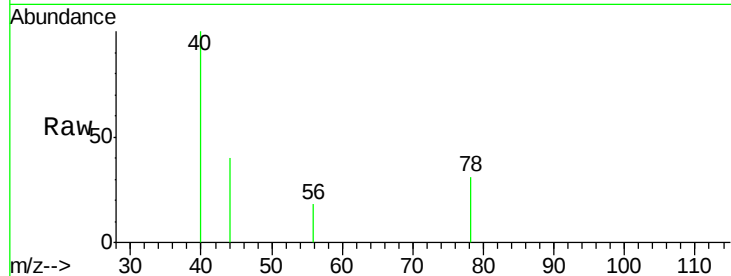
Tot Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

69 0.0 25.9 38.9#

84 2276.2 74.2 111.4#



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0

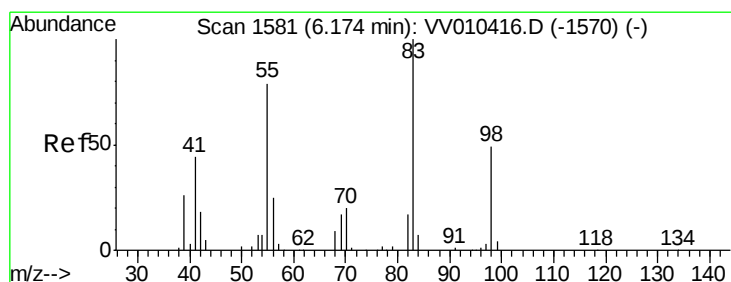
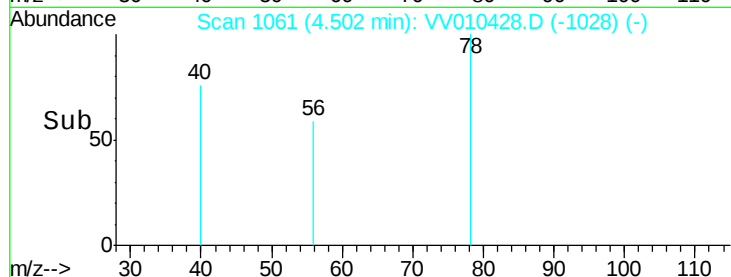
4.50

100

50

0

Time-->



#36

Methylcyclohexane

Concen: 4.690 ug/L

RT: 6.13 min Scan# 1567

Delta R.T. -0.05 min

Lab File: VV010428.D

Acq: 22 Apr 2019 23:01

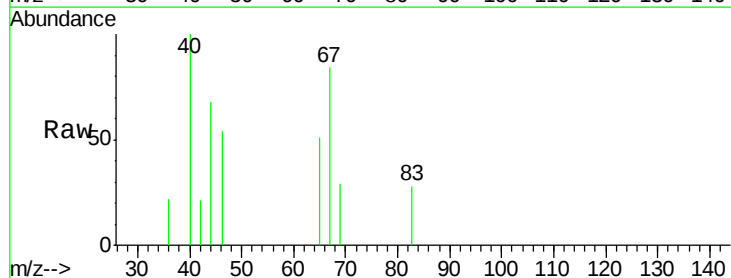
Tgt Ion: 83 Resp: 71

Ion Ratio Lower Upper

83 100

55 0.0 59.6 89.4#

98 0.0 38.0 57.0#



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

6.13

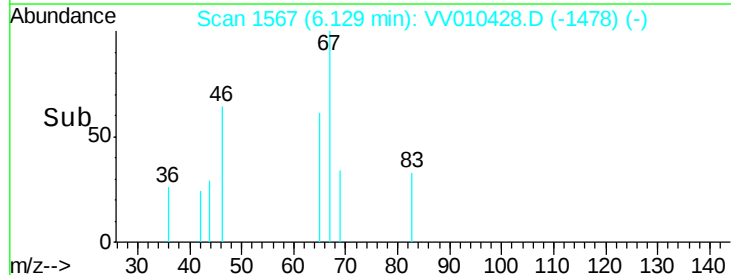
150

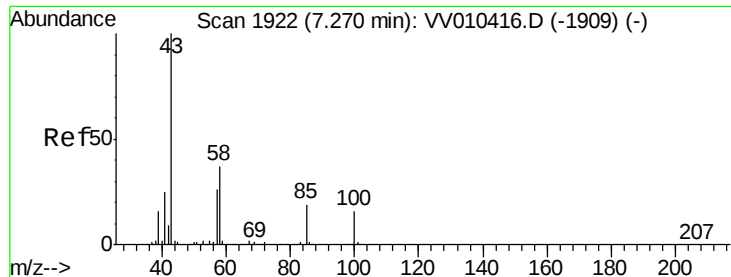
100

50

0

Time-->

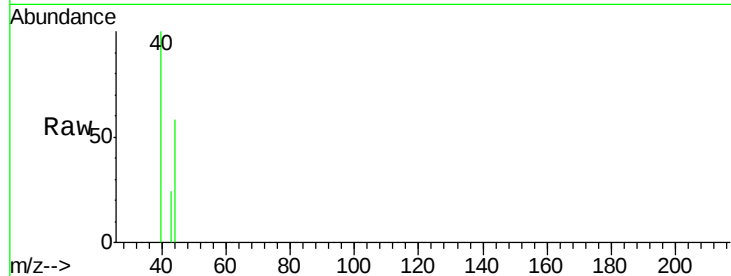




#43
4-Methyl-2-pentanone
Concen: 7.041 ug/L
RT: 7.21 min Scan# 1904
Delta R.T. -0.06 min
Lab File: VV010428.D
Acq: 22 Apr 2019 23:01

Instrument :
MSVOA_V
ClientSampleId :
GAHN6

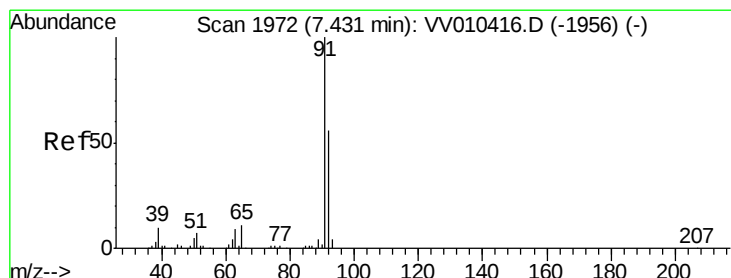
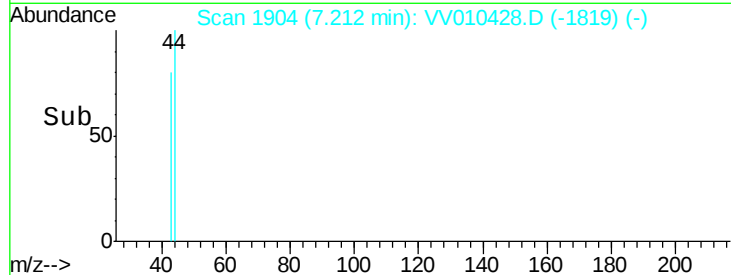
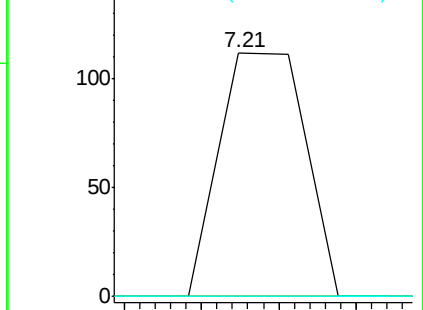
Tot Ion	43	Resp	43
Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	45.2#
100	690.7	12.9	19.3#



Abundance Ion 43.00 (42.70 to 43.70): VV010428.D (-1819) (-)

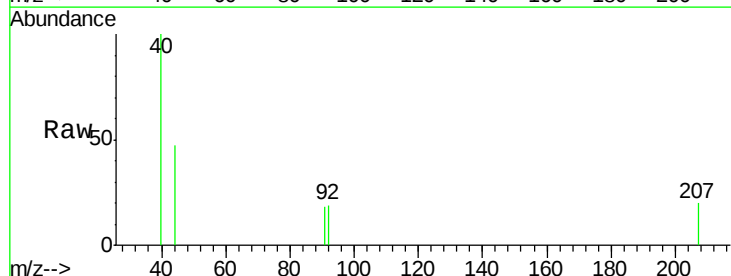
Ion 58.00 (57.70 to 58.70): VV010428.D (-1819) (-)

Ion 100.00 (99.70 to 100.70): VV010428.D (-1819) (-)



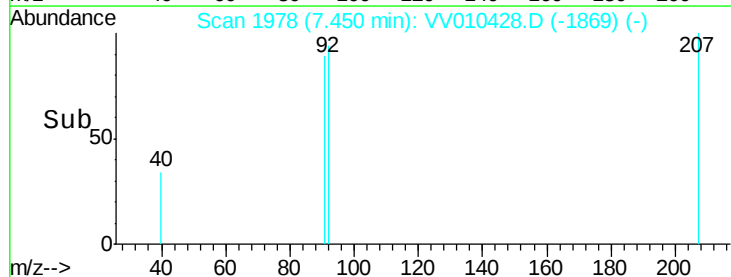
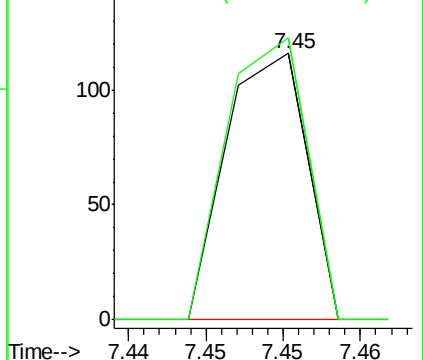
#44
Toluene
Concen: 1.040 ug/L
RT: 7.45 min Scan# 1978
Delta R.T. 0.02 min
Lab File: VV010428.D
Acq: 22 Apr 2019 23:01

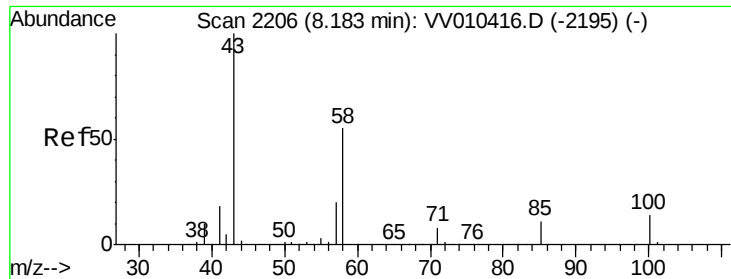
Tgt Ion	91	Resp	42
Ion	Ratio	Lower	Upper
91	100		
92	106.0	40.5	75.1#



Abundance Ion 91.00 (90.70 to 91.70): VV010428.D (-1869) (-)

Ion 92.00 (91.70 to 92.70): VV010428.D (-1869) (-)

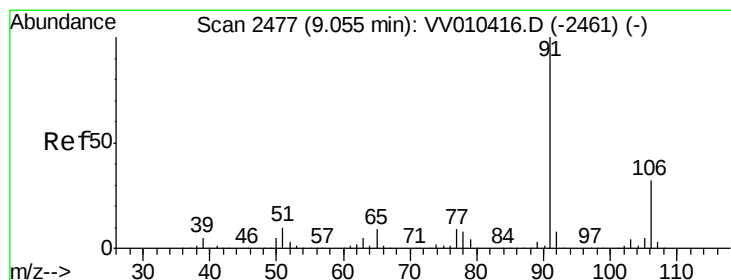
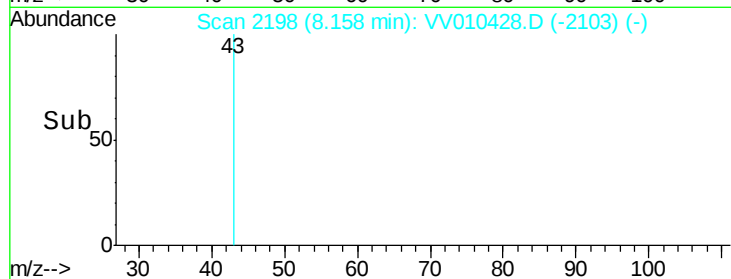
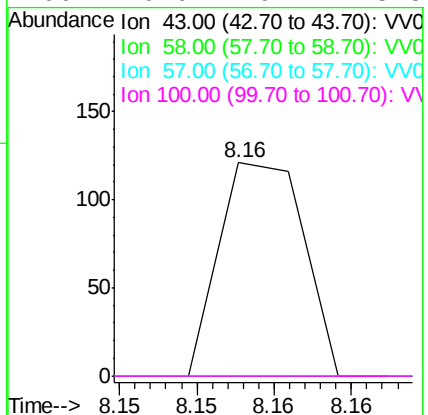
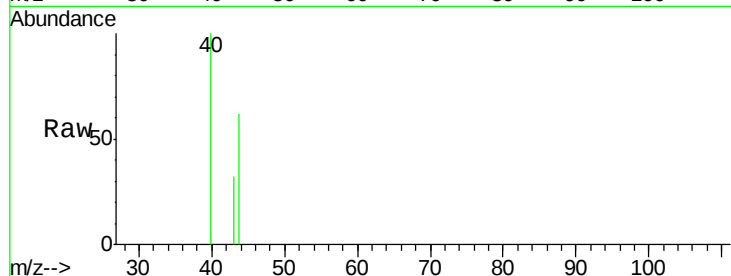




#49
2-Hexanone
Concen: 10.609 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. -0.03 min
Lab File: VV010428.D
Acq: 22 Apr 2019 23:01

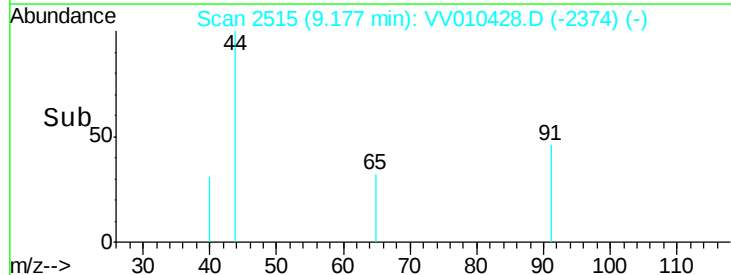
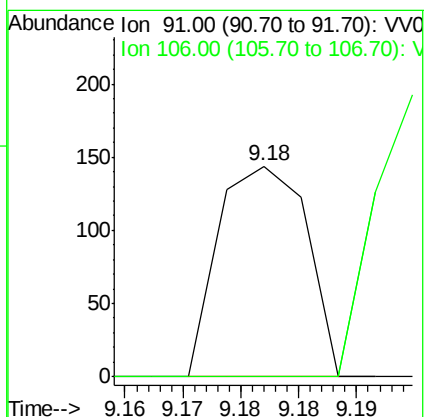
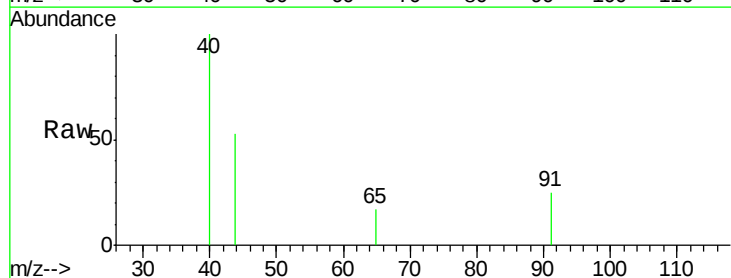
Instrument :
MSVOA_V
ClientSampleId :
GAHN6

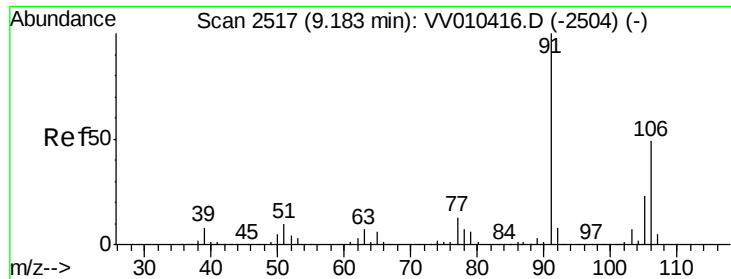
Tot Ion:	43	Resp:	46
Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.6	56.4#
57	0.0	15.8	23.8#
100	0.0	9.2	13.8#



#53
Ethylbenzene
Concen: 1.610 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. 0.12 min
Lab File: VV010428.D
Acq: 22 Apr 2019 23:01

Tgt Ion:	91	Resp:	76
Ion	Ratio	Lower	Upper
91	100		
106	0.0	22.5	41.9#





#54

m,p-Xylene

Concen: 5.079 ug/L

RT: 9.19 min Scan# 2519

Delta R.T. 0.01 min

Lab File: VV010428.D

Acq: 22 Apr 2019 23:01

Instrument :

MSVOA_V

ClientSampled :

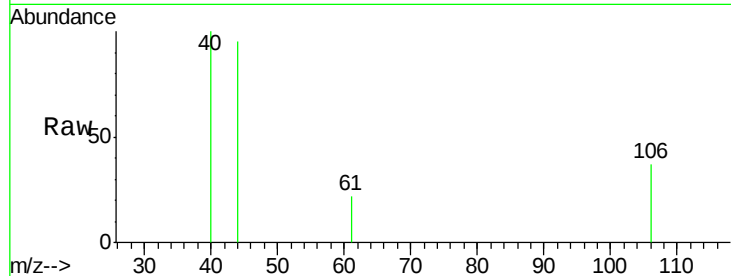
GAHN6

Tot Ion:106 Resp: 94

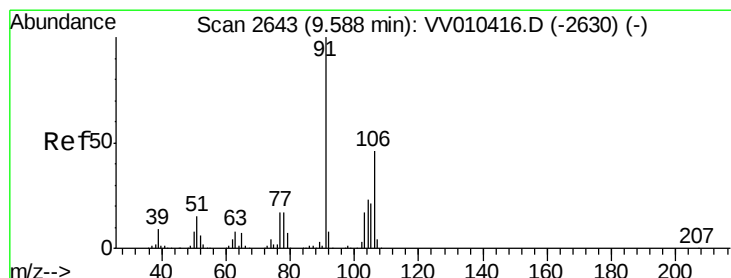
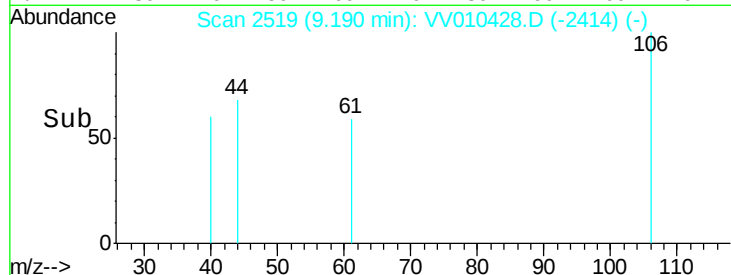
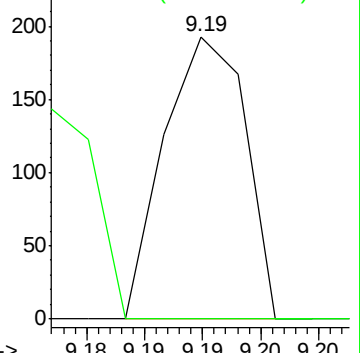
Ion Ratio Lower Upper

106 100

91 0.0 142.5 264.7#



Abundance Ion 106.00 (105.70 to 106.70): V



#55

o-xylene

Concen: 4.556 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.01 min

Lab File: VV010428.D

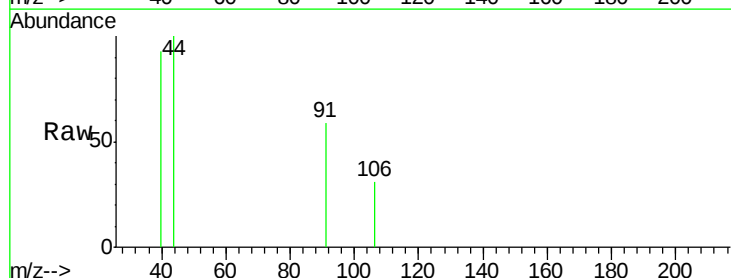
Acq: 22 Apr 2019 23:01

Tgt Ion:106 Resp: 84

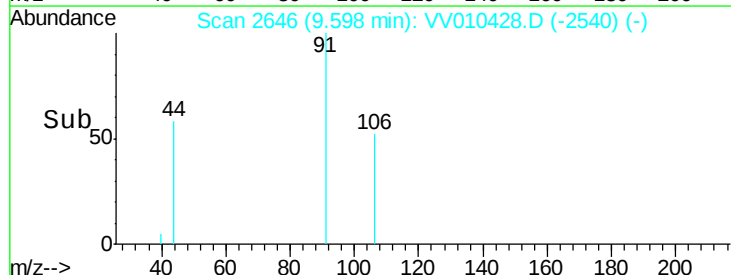
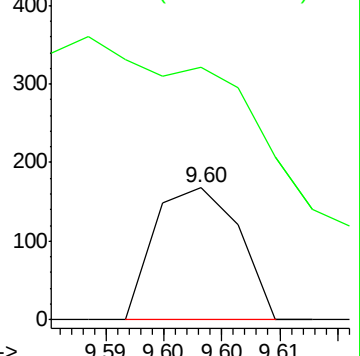
Ion Ratio Lower Upper

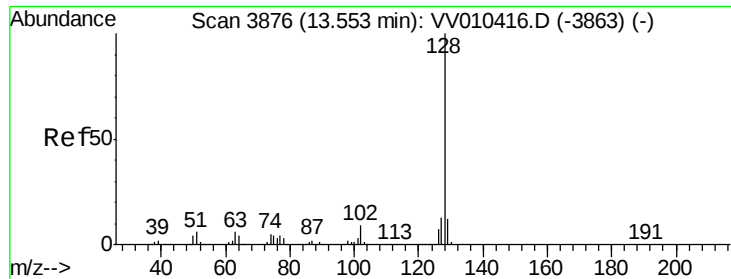
106 100

91 191.1 148.5 275.9



Abundance Ion 106.00 (105.70 to 106.70): V





#69

Naphthalene

Concen: 113.205 ug/L

RT: 13.56 min Scan# 3879

Delta R.T. 0.01 min

Lab File: VV010428.D

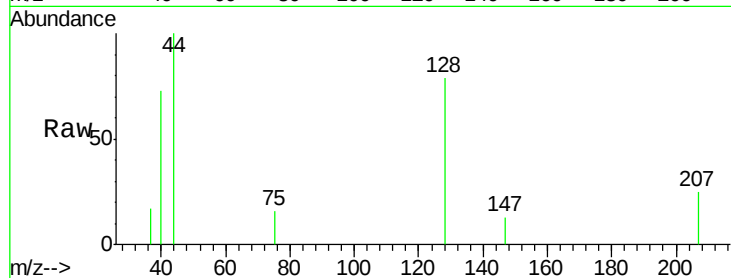
Acq: 22 Apr 2019 23:01

Instrument :

MSVOA_V

ClientSampleId :

GAHN6



Tot Ion:128 Resp: 898

Ion Ratio Lower Upper

128 100

129 0.0 8.4 12.6#

127 4.6 10.2 15.2#

