

Data File : VW008517.D
Acq On : 06 Feb 2019 10:15
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Quant Time: Feb 07 01:45:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	603967	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	905795	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	792474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	408511	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	268688	45.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.56%	
35) Dibromofluoromethane	7.88	113	265235	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
50) Toluene-d8	10.32	98	1009514	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
62) 4-Bromofluorobenzene	12.62	95	368165	45.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.20%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.01	85	161006	46.382	ug/l	98
3) Chloromethane	2.21	50	210002	42.597	ug/l	99
4) Vinyl Chloride	2.37	62	311404	49.620	ug/l	98
5) Bromomethane	2.78	94	227889	56.298	ug/l	96
6) Chloroethane	2.93	64	223903	58.337	ug/l	98
7) Trichlorofluoromethane	3.25	101	246921	45.686	ug/l	96
8) Diethyl Ether	3.67	74	146046	48.488	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.06	101	290779	53.231	ug/l	99
10) Methyl Iodide	4.26	142	438179	50.784	ug/l	100
11) Tert butyl alcohol	5.17	59	97209	203.491	ug/l	98
12) 1,1-Dichloroethene	4.03	96	274371	49.631	ug/l	97
13) Acrolein	3.89	56	86040	204.908	ug/l	99
14) Allyl chloride	4.65	41	478433	45.575	ug/l	97
15) Acrylonitrile	5.36	53	296868	228.255	ug/l	98
16) Acetone	4.12	43	357973	268.661	ug/l	97
17) Carbon Disulfide	4.37	76	768849	43.546	ug/l	98
18) Methyl Acetate	4.67	43	169710	47.753	ug/l	96
19) Methyl tert-butyl Ether	5.42	73	443095	48.443	ug/l	99
20) Methylene Chloride	4.90	84	279577	45.524	ug/l	94
21) trans-1,2-Dichloroethene	5.42	96	301618	48.530	ug/l	94
22) Diisopropyl ether	6.31	45	896128	45.042	ug/l	96
23) Vinyl Acetate	6.25	43	2626725	223.593	ug/l	98
24) 1,1-Dichloroethane	6.21	63	537093	47.692	ug/l	98
25) 2-Butanone	7.17	43	447591	241.846	ug/l	97
26) 2,2-Dichloropropane	7.16	77	369172	48.498	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	332457	49.082	ug/l	97
28) Bromochloromethane	7.51	49	230970	44.653	ug/l	95
29) Tetrahydrofuran	7.52	42	262598	223.906	ug/l	98
30) Chloroform	7.67	83	540879	48.830	ug/l	97
31) Cyclohexane	7.95	56	488626	41.961	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	468896	49.010	ug/l	99
36) 1,1-Dichloropropene	8.08	75	437429	51.124	ug/l	99
37) Ethyl Acetate	7.25	43	180725	47.741	ug/l	98
38) Carbon Tetrachloride	8.06	117	457170	53.097	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	541951	48.216	ug/l	97
40) Benzene	8.32	78	1185904	49.949	ug/l	98
41) Methacrylonitrile	7.48	41	114704	51.174	ug/l	96
42) 1,2-Dichloroethane	8.40	62	344397	50.054	ug/l	100
43) Isopropyl Acetate	8.42	43	374068	47.564	ug/l	98
44) Trichloroethene	9.09	130	336393	52.102	ug/l	99
45) 1,2-Dichloropropane	9.37	63	297120	50.190	ug/l	99
46) Dibromomethane	9.45	93	153144	50.296	ug/l	98
47) Bromodichloromethane	9.64	83	402472	49.974	ug/l	97
48) Methyl methacrylate	9.43	41	180136	46.844	ug/l	100
49) 1,4-Dioxane	9.45	88	45030	874.930	ug/l	94
51) 4-Methyl-2-Pentanone	10.21	43	918520	236.407	ug/l	100
52) Toluene	10.38	92	767351	48.961	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	416598	48.613	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	474080	48.747	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	212193	50.243	ug/l	97
56) Ethyl methacrylate	10.65	69	276164	46.667	ug/l	98
57) 1,3-Dichloropropane	10.93	76	373597	49.377	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	737550	256.512	ug/l	96
59) 2-Hexanone	10.97	43	728878	265.734	ug/l	99
60) Dibromochloromethane	11.13	129	277565	51.142	ug/l	98
61) 1,2-Dibromoethane	11.24	107	207008	49.433	ug/l	100
64) Tetrachloroethene	10.86	164	281157	52.400	ug/l	98
65) Chlorobenzene	11.66	112	837779	51.788	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	303345	52.410	ug/l	98
67) Ethyl Benzene	11.73	91	1511552	50.832	ug/l	100
68) m/p-Xylenes	11.84	106	1174732	101.818	ug/l	97
69) o-Xylene	12.16	106	552272	50.379	ug/l	99
70) Styrene	12.18	104	899120	49.654	ug/l	99
71) Bromoform	12.35	173	164072	50.383	ug/l #	99
73) Isopropylbenzene	12.46	105	1556872	51.120	ug/l	99
74) N-amyl acetate	12.27	43	368401	46.955	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.72	83	243207	50.440	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	342569	96.452	ug/l	19
77) Bromobenzene	12.75	156	348891	52.456	ug/l	93
78) n-propylbenzene	12.80	91	1866466	51.026	ug/l	99
79) 2-Chlorotoluene	12.90	91	1032928	50.042	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	1290737	50.706	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	85984	47.815	ug/l	97
82) 4-Chlorotoluene	12.99	91	1081179	49.197	ug/l	98
83) tert-Butylbenzene	13.21	119	1180967	52.134	ug/l	97
84) 1,2,4-Trimethylbenzene	13.26	105	1319883	51.013	ug/l	100
85) sec-Butylbenzene	13.38	105	1671491	51.668	ug/l	100
86) p-Isopropyltoluene	13.50	119	1499974	52.933	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	705694	52.536	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	691091	51.770	ug/l	99
89) n-Butylbenzene	13.83	91	1434120	51.544	ug/l	99
90) Hexachloroethane	14.10	117	286871	51.766	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	613112	51.585	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	42253	46.185	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW020619\
Quantitation Report (Not Reviewed)

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	457093	53.893	ug/l	99
94) Hexachlorobutadiene	15.24	225	280937	54.962	ug/l	100
95) Naphthalene	15.37	128	782186	52.522	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	385221	53.542	ug/l	99

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

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Sample : VSTDCCC050

Misc : 5.00G/5ML/MSVOA W/SOIL

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ALS Vial      : 2      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

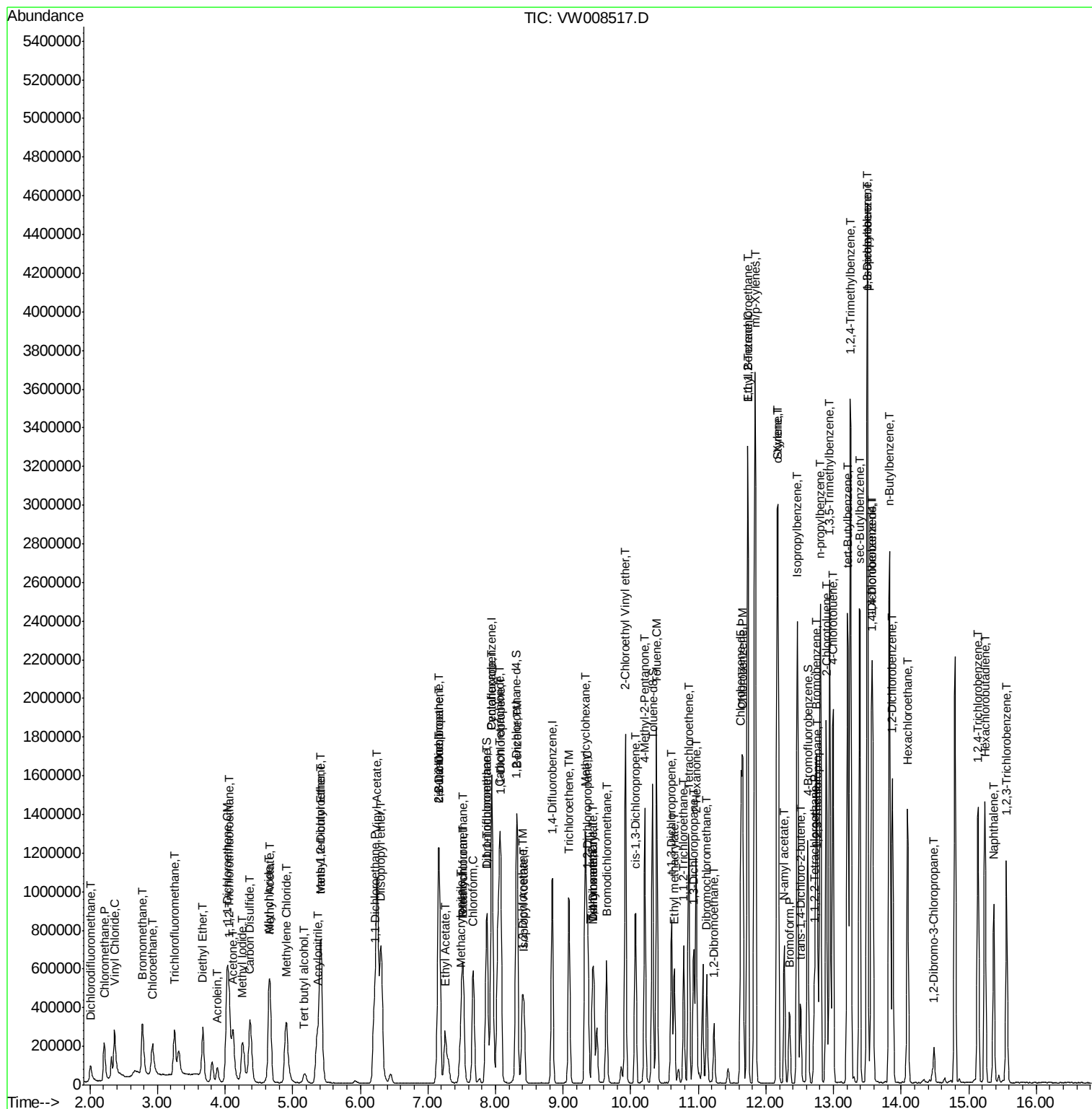
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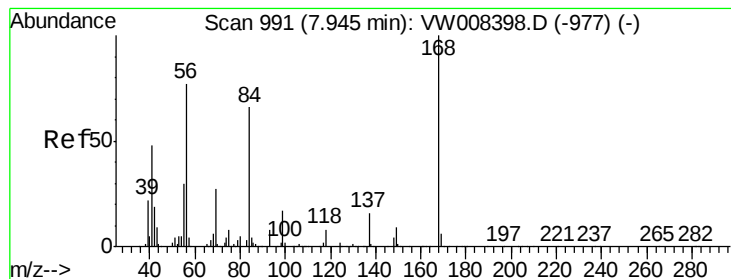
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA W\METHOD\82W012419S.M

Quant Title : SW846 8260

QLast Update : Fri Jan 25 11:07:41 2019

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

Instrument :

MSVOA_W

ClientSampleId :

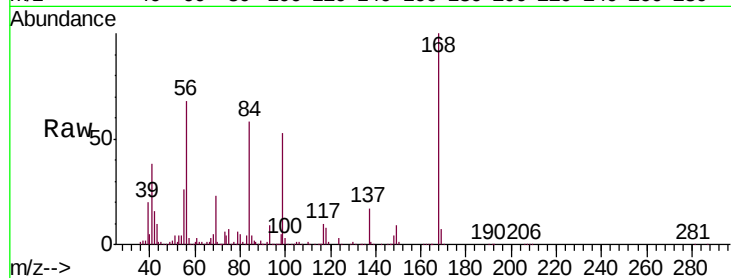
VSTDCCC050

Tgt Ion:168 Resp: 603967

Ion Ratio Lower Upper

168 100

99 53.4 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

300000

250000

200000

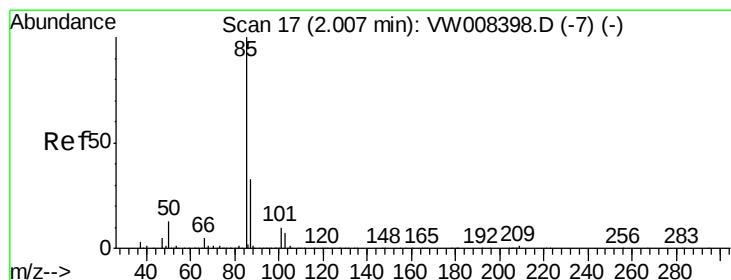
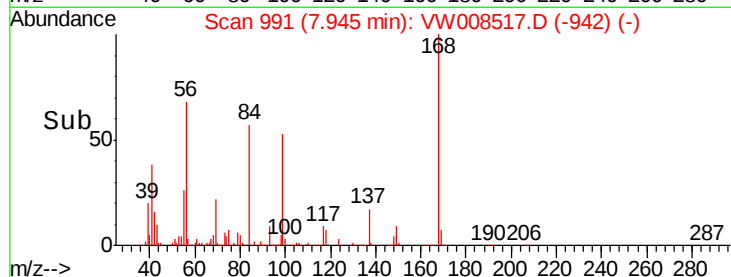
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 46.382 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW008517.D

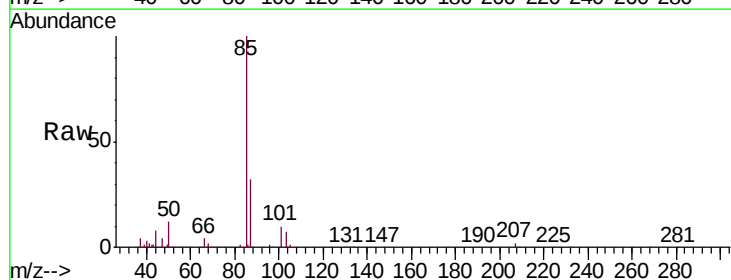
Acq: 06 Feb 2019 10:15

Tgt Ion: 85 Resp: 161006

Ion Ratio Lower Upper

85 100

87 32.1 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

50000

40000

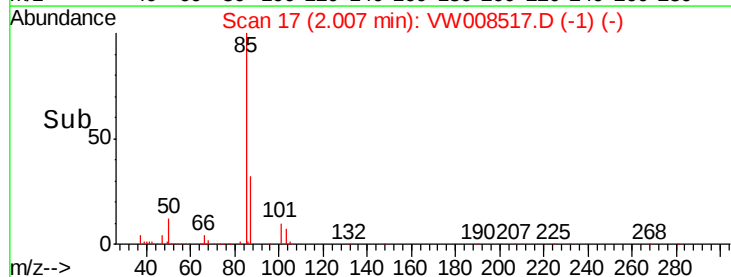
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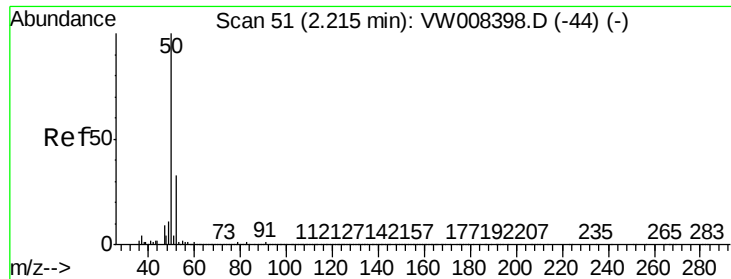
20000

10000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 42.597 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

Instrument :

MSVOA_W

ClientSampleId :

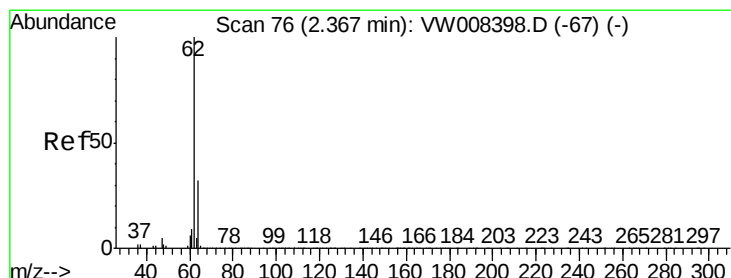
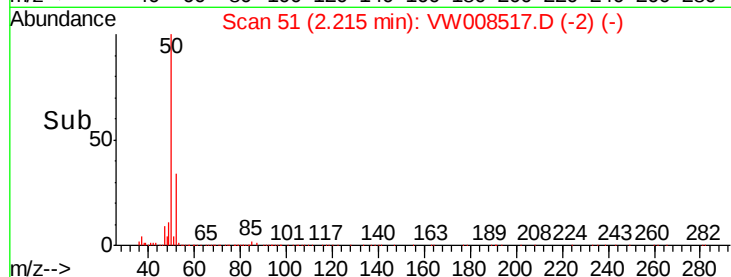
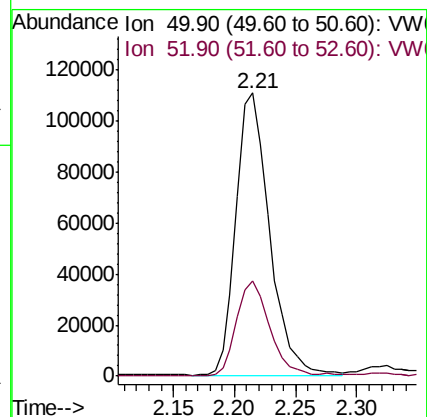
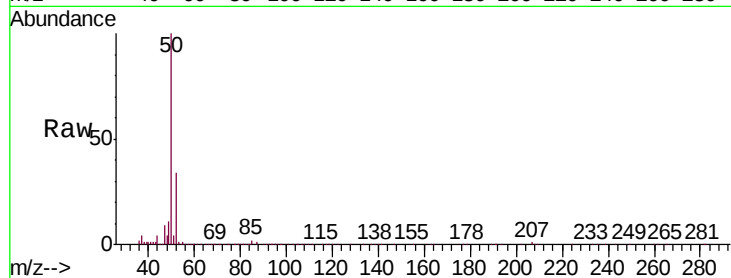
VSTDCCC050

Tgt Ion: 50 Resp: 210002

Ion Ratio Lower Upper

50 100

52 33.6 26.3 39.5



#4

Vinyl Chloride

Concen: 49.620 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW008517.D

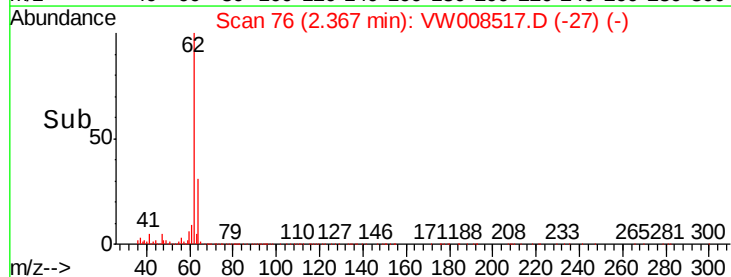
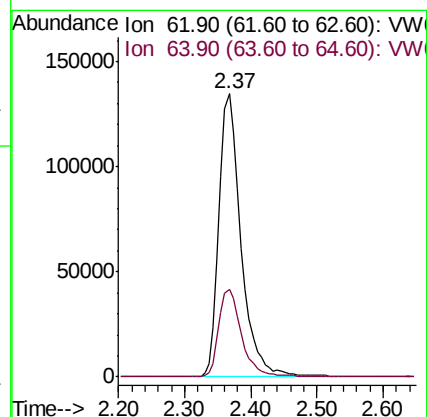
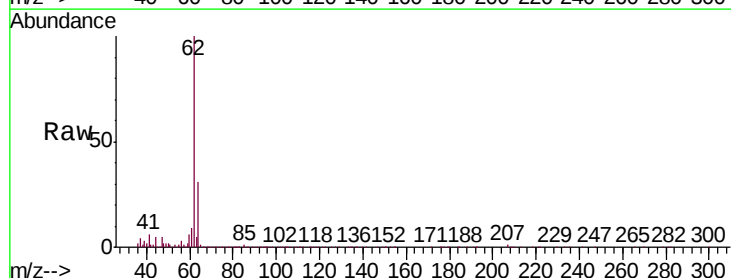
Acq: 06 Feb 2019 10:15

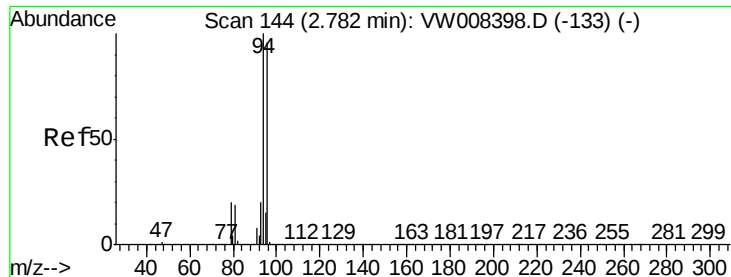
Tgt Ion: 62 Resp: 311404

Ion Ratio Lower Upper

62 100

64 30.7 25.5 38.3





#5

Bromomethane

Concen: 56.298 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

Instrument :

MSVOA_W

ClientSampleId :

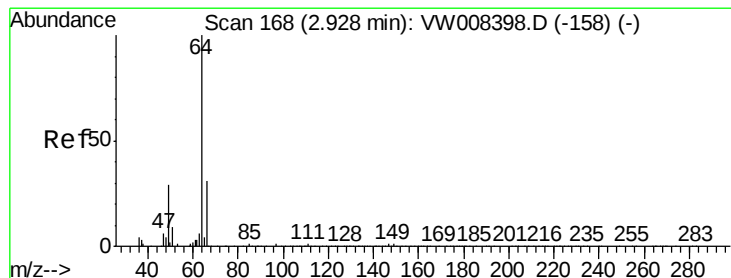
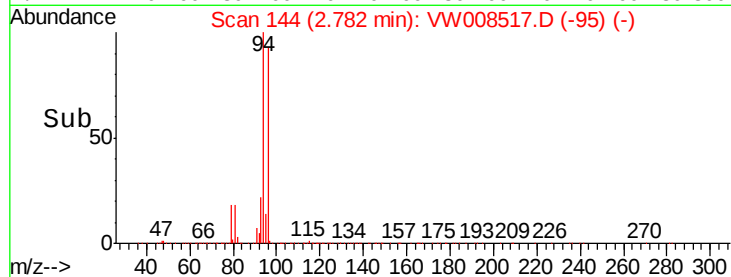
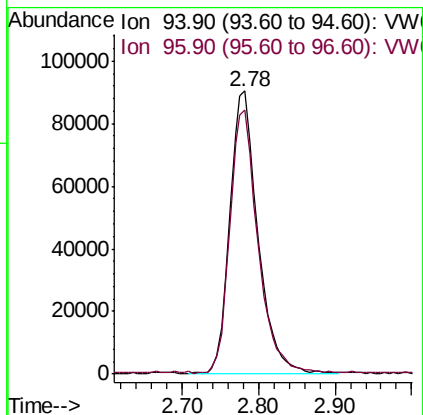
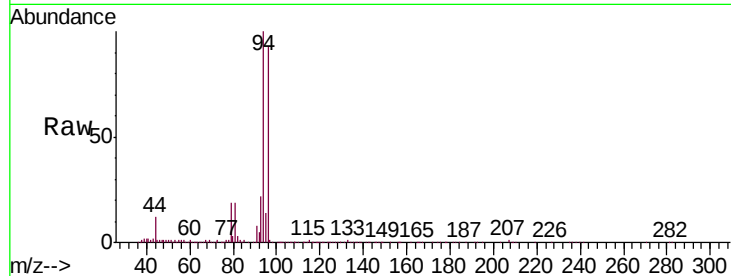
VSTDCCC050

Tgt Ion: 94 Resp: 227889

Ion Ratio Lower Upper

94 100

96 92.8 77.2 115.8



#6

Chloroethane

Concen: 58.337 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW008517.D

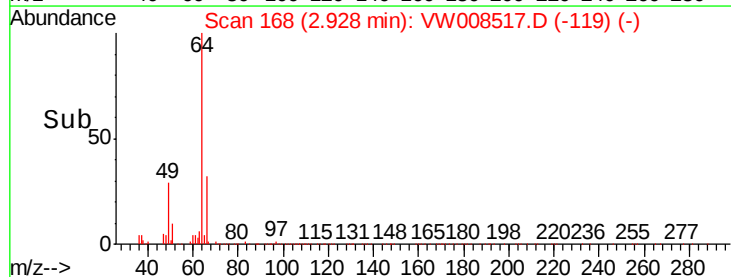
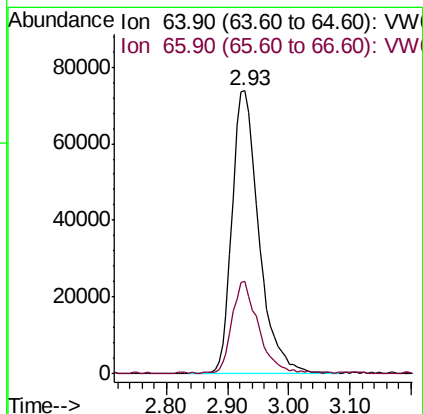
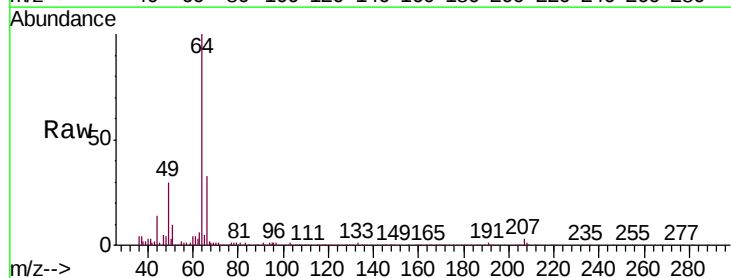
Acq: 06 Feb 2019 10:15

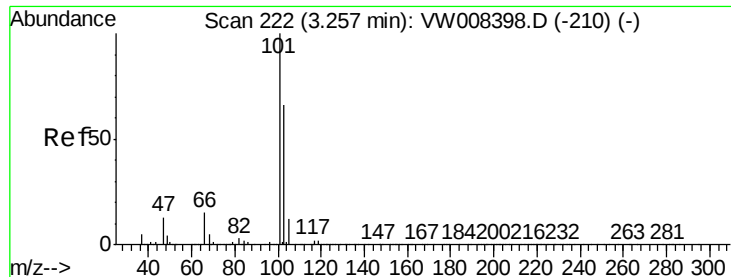
Tgt Ion: 64 Resp: 223903

Ion Ratio Lower Upper

64 100

66 32.2 24.9 37.3



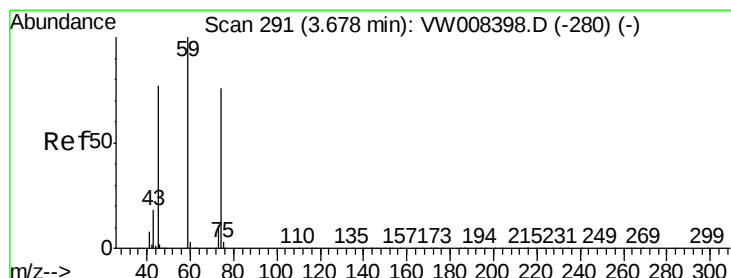
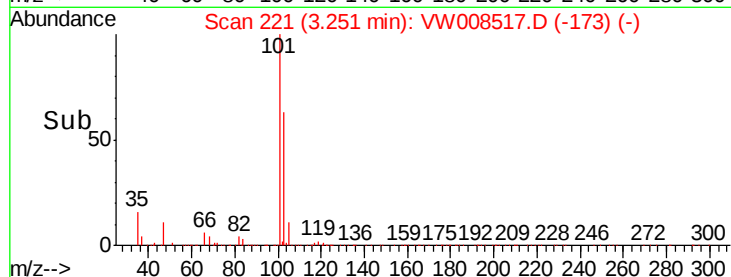
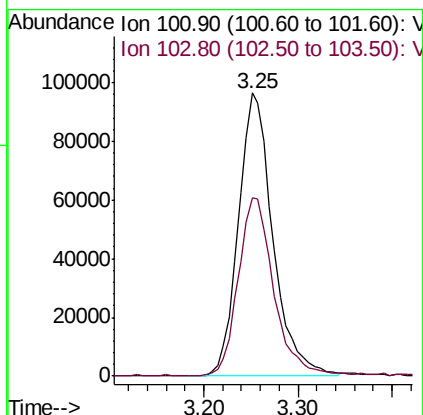
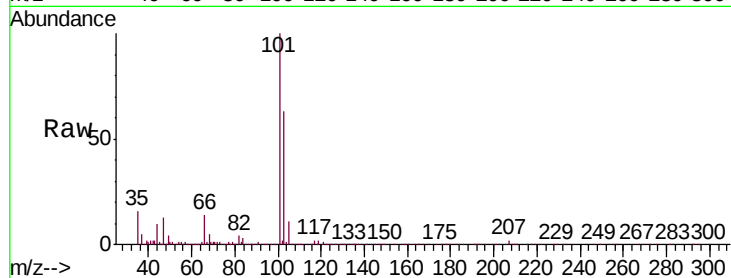


#7

Trichlorofluoromethane
Concen: 45.686 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW008517.D
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Instrument :
MSVOA_W
ClientSampled :
VSTDCCC050

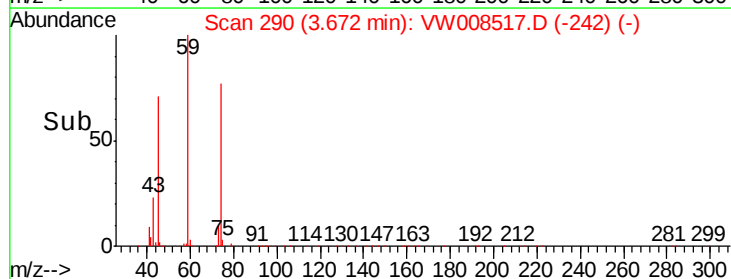
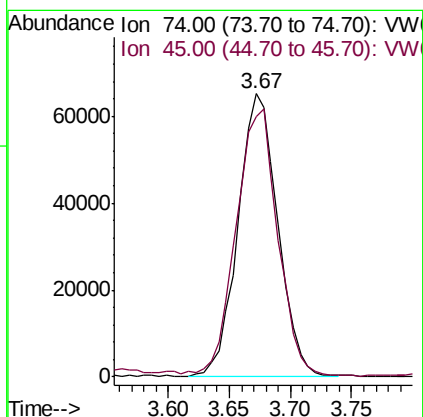
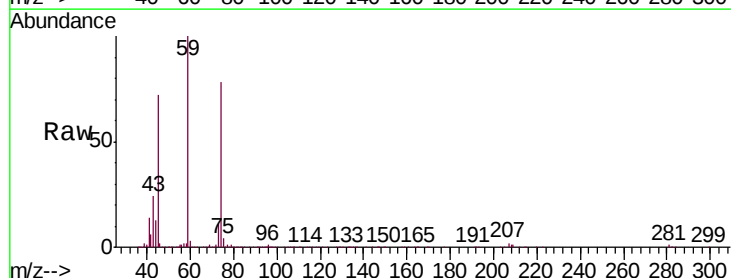
Tgt Ion:101 Resp: 246921
Ion Ratio Lower Upper
101 100
103 62.5 52.5 78.7

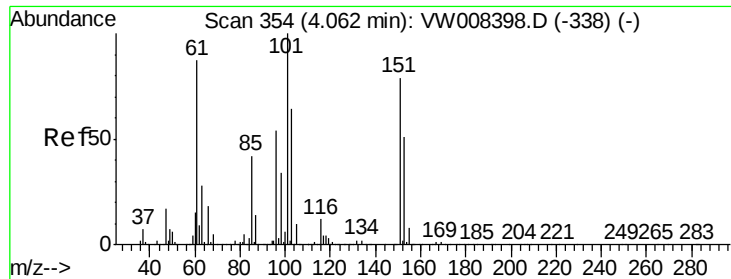


#8

Diethyl Ether
Concen: 48.488 ug/l
RT: 3.67 min Scan# 290
Delta R.T. -0.01 min
Lab File: VW008517.D
Acq: 06 Feb 2019 10:15

Tgt Ion: 74 Resp: 146046
Ion Ratio Lower Upper
74 100
45 99.9 51.7 155.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.231 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

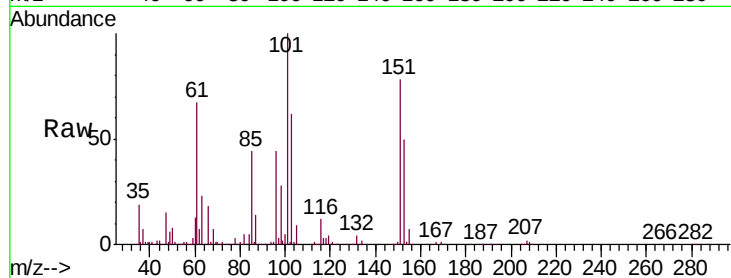
Tgt Ion:101 Resp: 290779

Ion Ratio Lower Upper

101 100

85 43.8 35.0 52.4

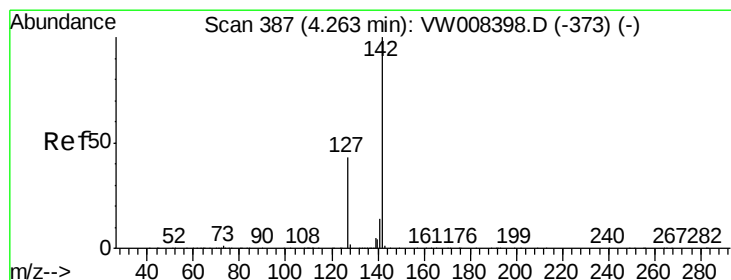
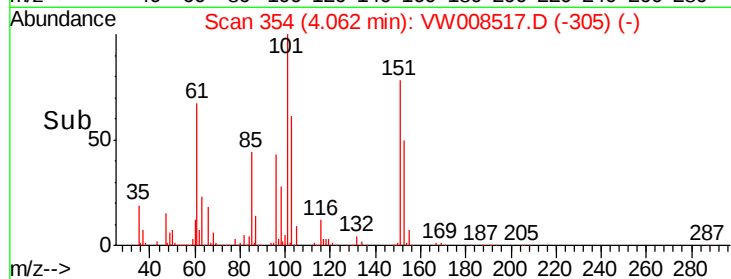
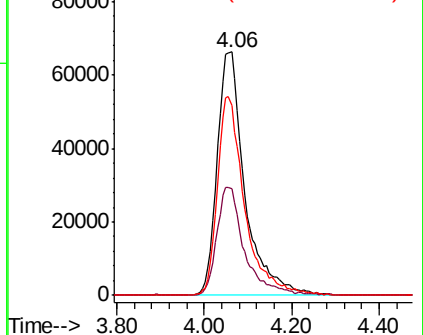
151 80.1 62.6 94.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 50.784 ug/l

RT: 4.26 min Scan# 387

Delta R.T. 0.00 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

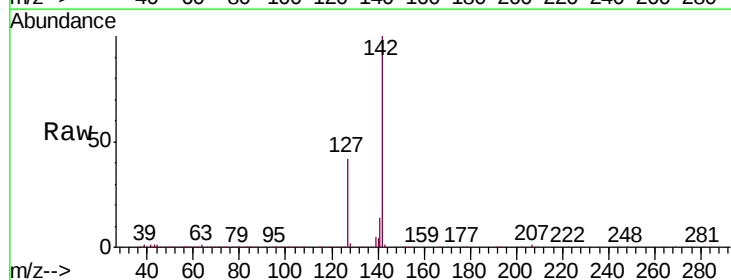
Tgt Ion:142 Resp: 438179

Ion Ratio Lower Upper

142 100

127 43.5 34.6 52.0

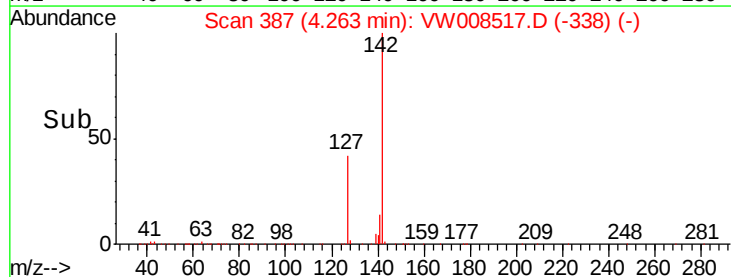
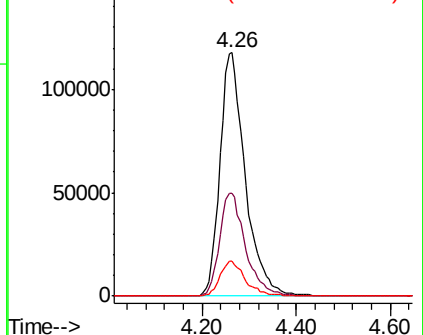
141 14.5 11.4 17.2

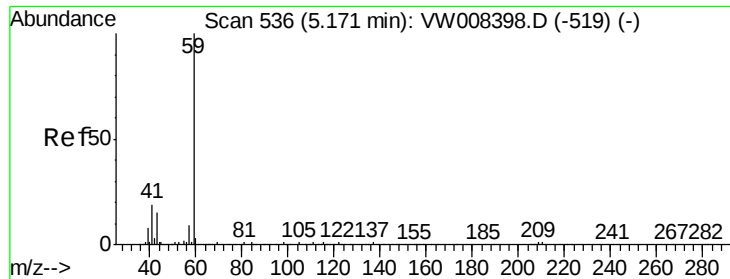


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

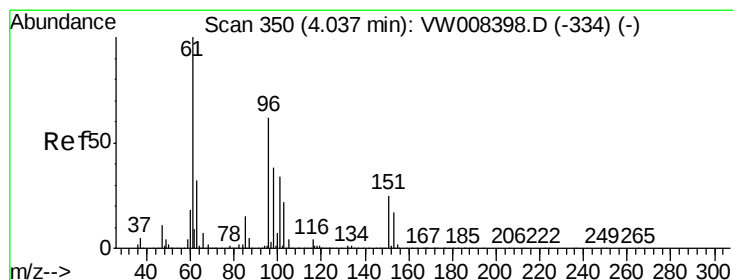
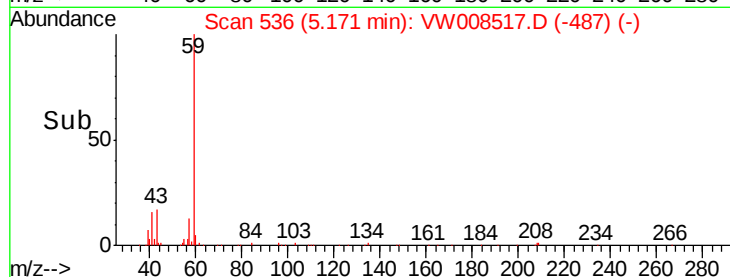
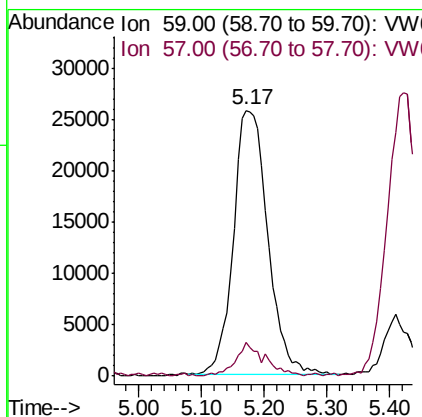
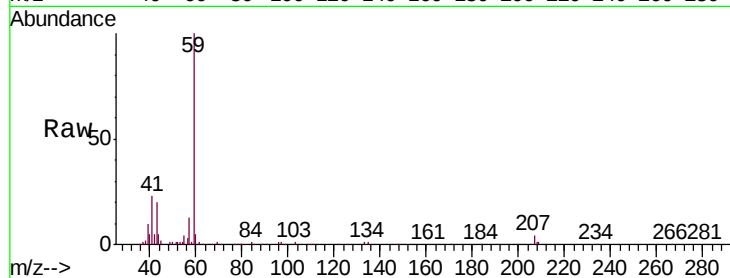




#11
Tert butyl alcohol
Concen: 203.491 ug/l
RT: 5.17 min Scan# 536
Delta R.T. 0.00 min
Lab File: VW008517.D
Acq: 06 Feb 2019 10:15

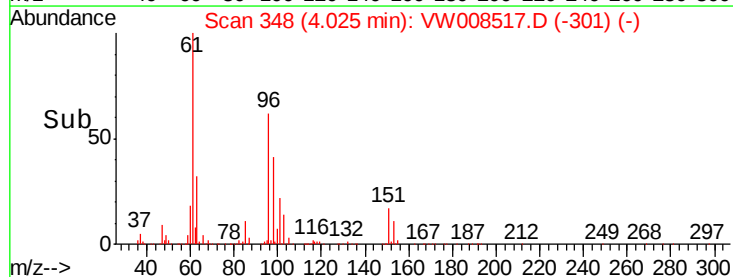
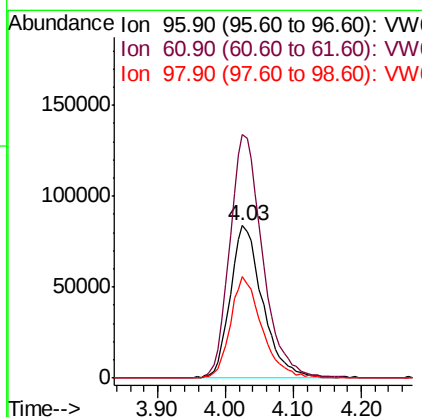
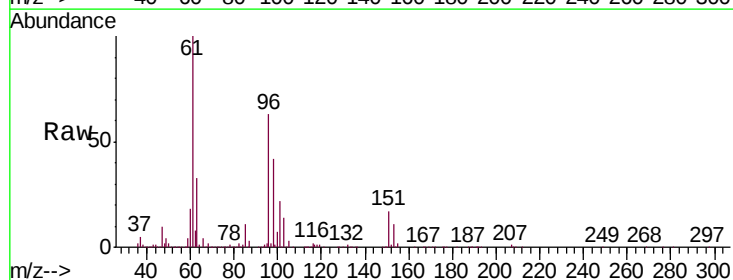
Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

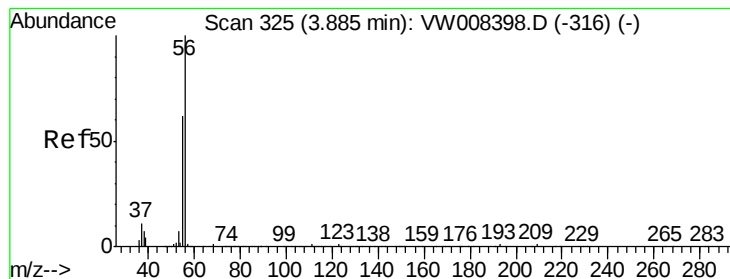
Tgt Ion: 59 Resp: 97209
Ion Ratio Lower Upper
59 100
57 11.0 9.3 13.9



#12
1,1-Dichloroethene
Concen: 49.631 ug/l
RT: 4.03 min Scan# 348
Delta R.T. -0.01 min
Lab File: VW008517.D
Acq: 06 Feb 2019 10:15

Tgt Ion: 96 Resp: 274371
Ion Ratio Lower Upper
96 100
61 160.2 129.5 194.3
98 66.5 48.6 73.0





#13

Acrolein

Concen: 204.908 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

Instrument :

MSVOA_W

ClientSampleId :

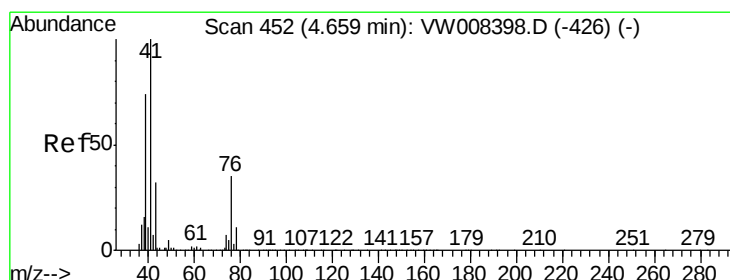
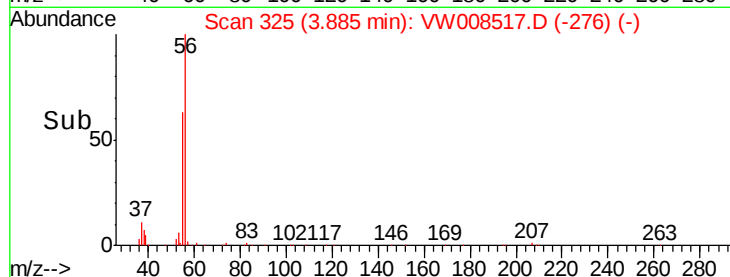
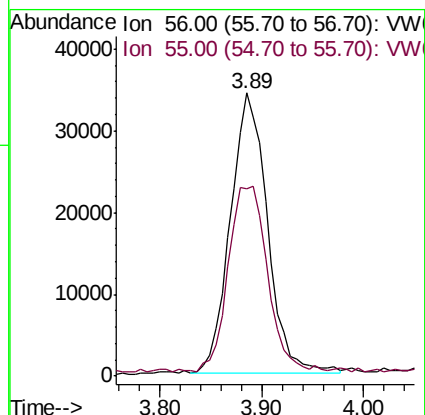
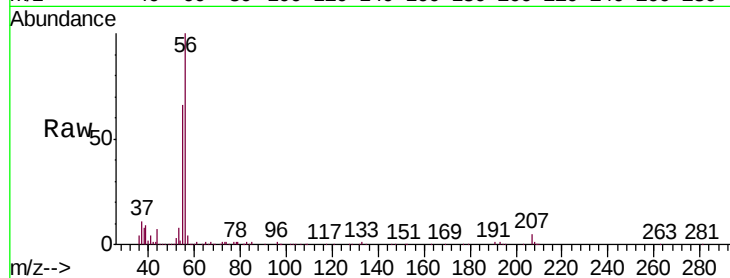
VSTDCCC050

Tgt Ion: 56 Resp: 86040

Ion Ratio Lower Upper

56 100

55 70.2 56.7 85.1



#14

Allyl chloride

Concen: 45.575 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

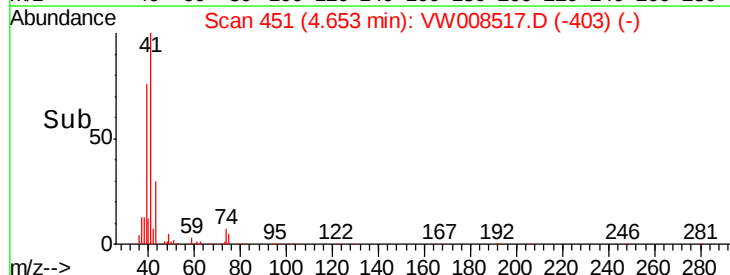
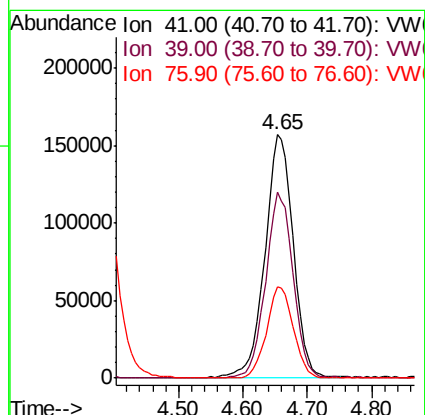
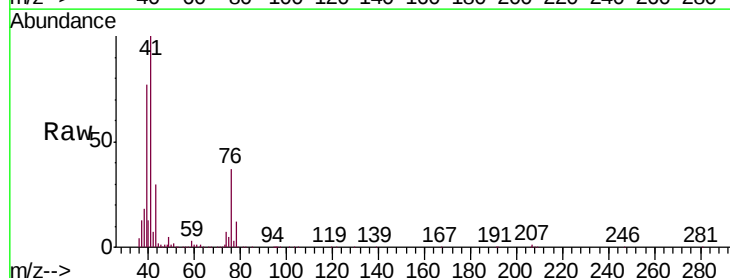
Tgt Ion: 41 Resp: 478433

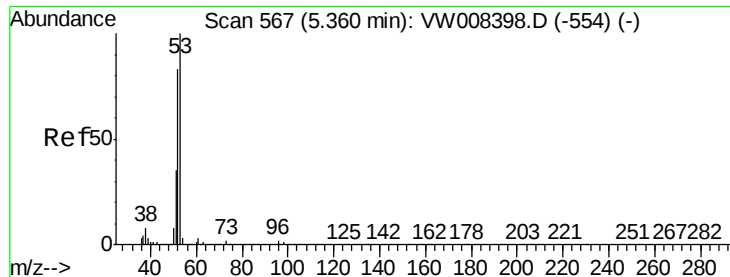
Ion Ratio Lower Upper

41 100

39 74.0 57.7 86.5

76 35.7 26.9 40.3





#15

Acrylonitrile

Concen: 228.255 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

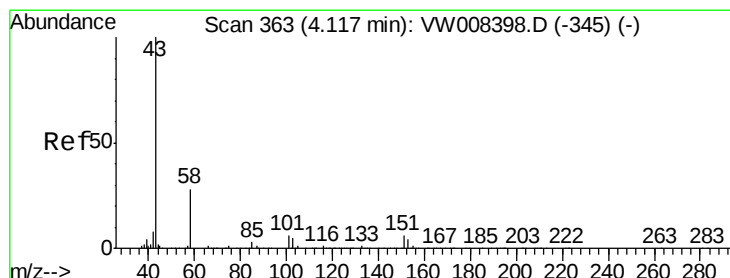
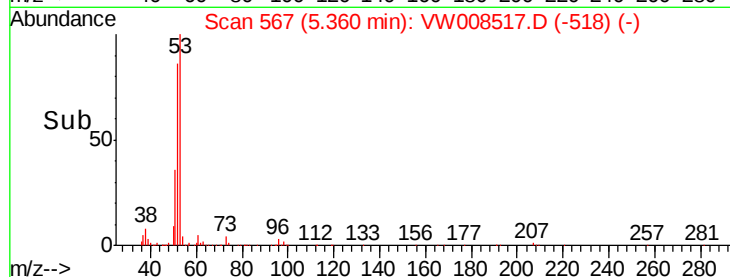
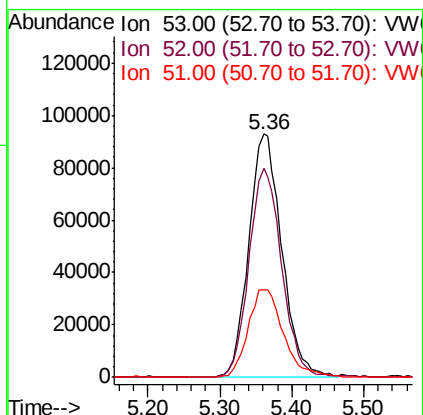
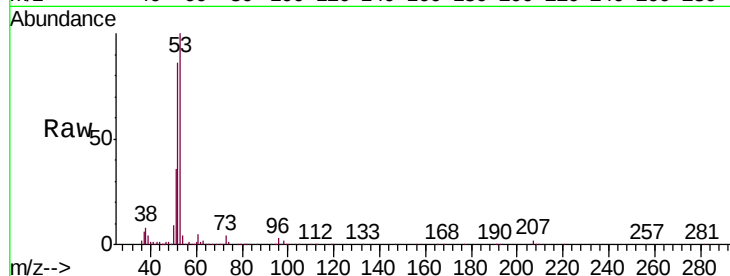
Tgt Ion: 53 Resp: 296868

Ion Ratio Lower Upper

53 100

52 85.2 67.0 100.4

51 38.8 29.8 44.8



#16

Acetone

Concen: 268.661 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW008517.D

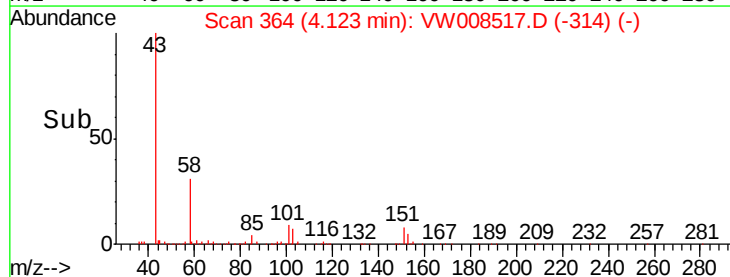
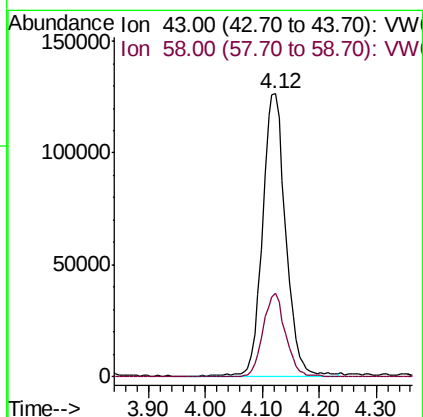
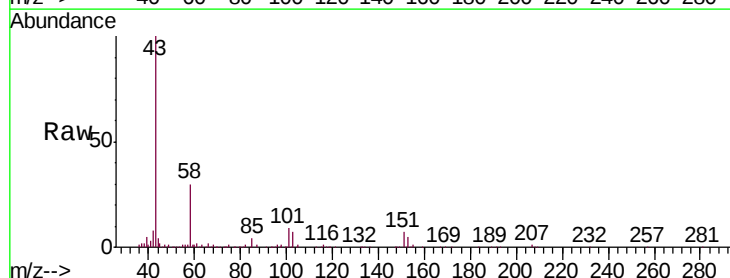
Acq: 06 Feb 2019 10:15

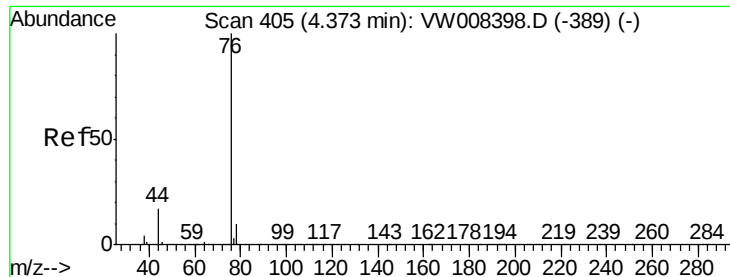
Tgt Ion: 43 Resp: 357973

Ion Ratio Lower Upper

43 100

58 29.6 22.6 34.0





#17

Carbon Disulfide

Concen: 43.546 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW008517.D

Acq: 06 Feb 2019 10:15

Instrument :

MSVOA_W

ClientSampleId :

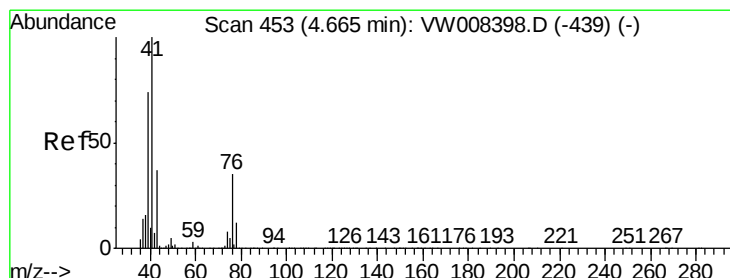
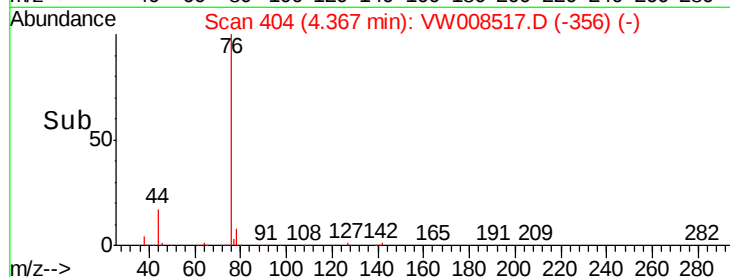
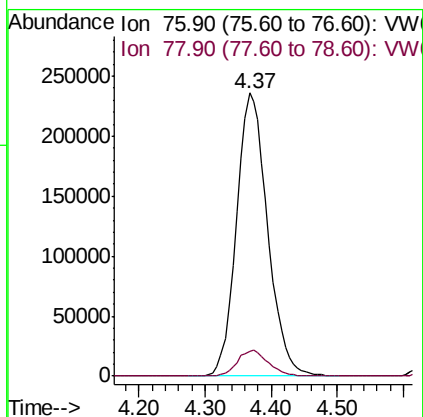
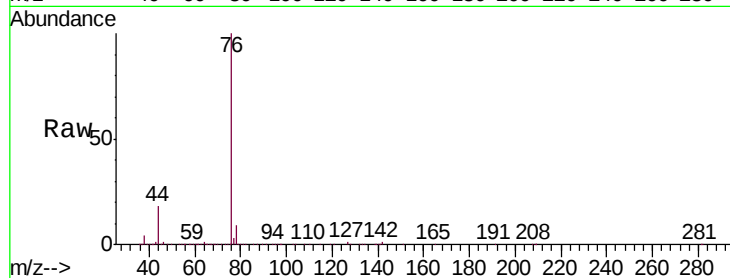
VSTDCCC050

Tgt Ion: 76 Resp: 768849

Ion Ratio Lower Upper

76 100

78 8.8 7.7 11.5



#18

Methyl Acetate

Concen: 47.753 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW008517.D

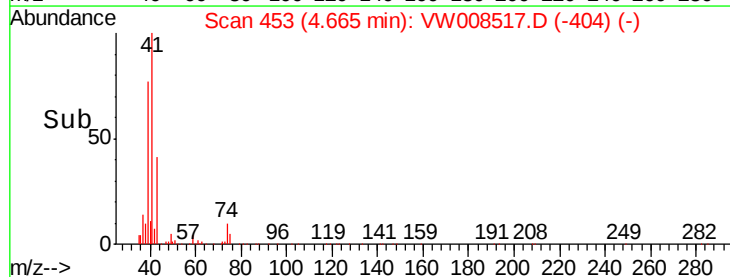
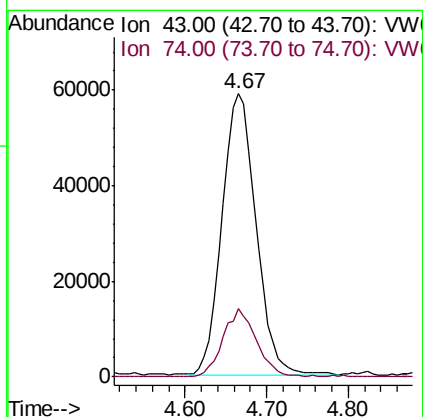
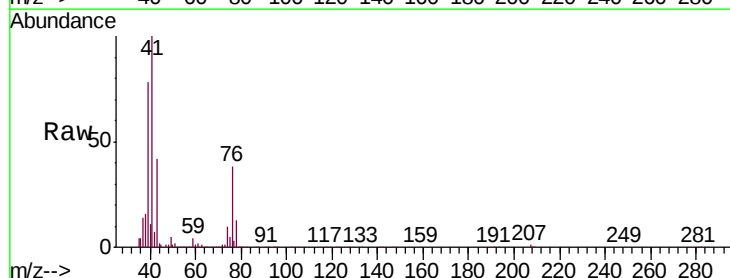
Acq: 06 Feb 2019 10:15

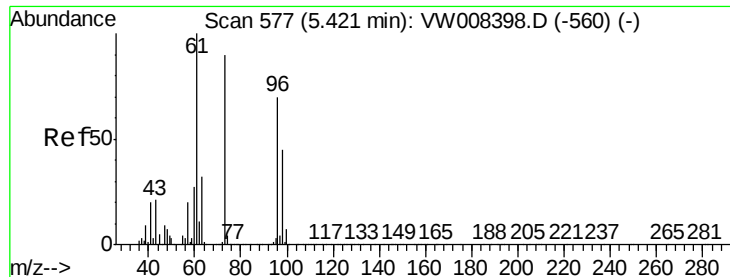
Tgt Ion: 43 Resp: 169710

Ion Ratio Lower Upper

43 100

74 23.8 17.5 26.3



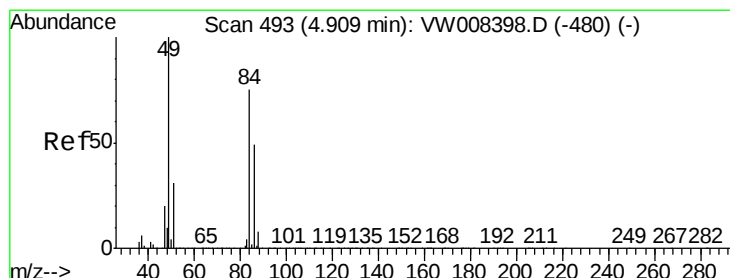
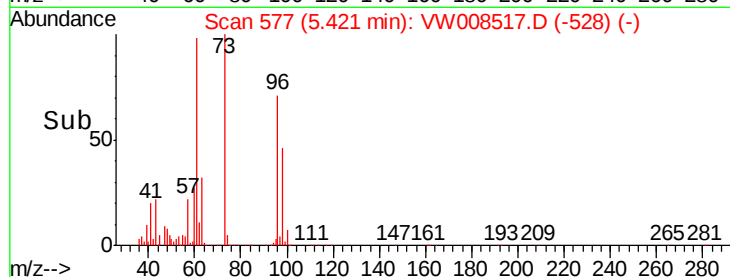
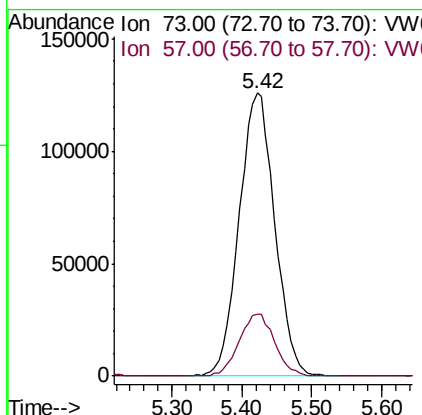
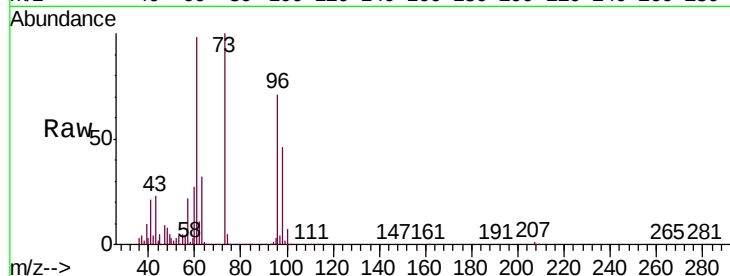


#19

Methyl tert-butyl Ether
 Concen: 48.443 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: VW008517.D
 Acq: 06 Feb 2019 10:15

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 73 Resp: 443095
 Ion Ratio Lower Upper
 73 100
 57 21.8 18.0 27.0



#20

Methylene Chloride
 Concen: 45.524 ug/l
 RT: 4.90 min Scan# 492
 Delta R.T. -0.01 min
 Lab File: VW008517.D
 Acq: 06 Feb 2019 10:15

Tgt Ion: 84 Resp: 279577
 Ion Ratio Lower Upper
 84 100
 49 124.8 106.8 160.2
 51 38.6 32.9 49.3
 86 62.9 52.2 78.2

