

Data File : VW008471.D
Acq On : 30 Jan 2019 18:04
Operator : SY/VA
Sample : VSTDCCC050EC
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 31 00:29:37 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	383729	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	592141	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	522865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	263122	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	185928	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	
35) Dibromofluoromethane	7.88	113	185529	53.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.16%	
50) Toluene-d8	10.32	98	716148	51.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.16%	
62) 4-Bromofluorobenzene	12.62	95	260234	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.01	85	101678	46.122	ug/l	99
3) Chloromethane	2.21	50	139018	44.382	ug/l	99
4) Vinyl Chloride	2.37	62	195708	49.083	ug/l	96
5) Bromomethane	2.78	94	145437	56.550	ug/l	99
6) Chloroethane	2.92	64	136948	56.160	ug/l	99
7) Trichlorofluoromethane	3.26	101	162742	47.216	ug/l	100
8) Diethyl Ether	3.67	74	100379	52.454	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	4.05	101	184984	53.299	ug/l	96
10) Methyl Iodide	4.26	142	305082	55.652	ug/l	99
11) Tert butyl alcohol	5.17	59	75684	249.362	ug/l	100
12) 1,1-Dichloroethene	4.03	96	180992	51.530	ug/l	99
13) Acrolein	3.89	56	54383	203.872	ug/l	99
14) Allyl chloride	4.66	41	319966	47.974	ug/l	97
15) Acrylonitrile	5.36	53	211180	255.564	ug/l	99
16) Acetone	4.12	43	192502	227.393	ug/l	96
17) Carbon Disulfide	4.37	76	528094	47.076	ug/l	98
18) Methyl Acetate	4.66	43	114426	50.677	ug/l	95
19) Methyl tert-butyl Ether	5.42	73	316104	54.394	ug/l	95
20) Methylene Chloride	4.91	84	192572	49.354	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	203561	51.551	ug/l	95
22) Diisopropyl ether	6.31	45	618957	48.966	ug/l	97
23) Vinyl Acetate	6.25	43	1787461	239.480	ug/l	98
24) 1,1-Dichloroethane	6.21	63	362631	50.682	ug/l	99
25) 2-Butanone	7.17	43	278577	236.914	ug/l	98
26) 2,2-Dichloropropane	7.17	77	241907	50.018	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	228440	53.082	ug/l	96
28) Bromochloromethane	7.51	49	149869	45.604	ug/l	93
29) Tetrahydrofuran	7.52	42	179501	240.896	ug/l	95
30) Chloroform	7.67	83	370966	52.712	ug/l	98
31) Cyclohexane	7.95	56	315882	42.696	ug/l	96
32) 1,1,1-Trichloroethane	7.87	97	315999	51.986	ug/l	98
36) 1,1-Dichloropropene	8.08	75	290170	51.877	ug/l	99
37) Ethyl Acetate	7.25	43	123089	49.739	ug/l	97
38) Carbon Tetrachloride	8.07	117	306294	54.417	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	352177	47.929	ug/l	97
40) Benzene	8.32	78	809908	52.181	ug/l	99
41) Methacrylonitrile	7.48	41	76635	52.300	ug/l	96
42) 1,2-Dichloroethane	8.40	62	236939	52.677	ug/l	100
43) Isopropyl Acetate	8.42	43	254447	49.491	ug/l	96
44) Trichloroethene	9.09	130	231403	54.826	ug/l	97
45) 1,2-Dichloropropane	9.37	63	202852	52.417	ug/l	97
46) Dibromomethane	9.46	93	106813	53.662	ug/l	96
47) Bromodichloromethane	9.64	83	279404	53.070	ug/l	98
48) Methyl methacrylate	9.43	41	121229	48.224	ug/l	96
49) 1,4-Dioxane	9.45	88	37366	1110.588	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	629480	247.833	ug/l	98
52) Toluene	10.39	92	524755	51.217	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	284513	50.786	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	330140	51.928	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	147491	53.421	ug/l	98
56) Ethyl methacrylate	10.65	69	191841	49.589	ug/l	98
57) 1,3-Dichloropropane	10.93	76	257109	51.981	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	510906	271.808	ug/l	97
59) 2-Hexanone	10.97	43	436763	243.581	ug/l	99
60) Dibromochloromethane	11.13	129	190005	53.553	ug/l	99
61) 1,2-Dibromoethane	11.23	107	146234	53.418	ug/l	99
64) Tetrachloroethene	10.86	164	195490	55.221	ug/l	97
65) Chlorobenzene	11.66	112	581468	54.478	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	207555	54.351	ug/l	99
67) Ethyl Benzene	11.73	91	1022589	52.121	ug/l	99
68) m/p-Xylenes	11.84	106	793317	104.215	ug/l	97
69) o-Xylene	12.16	106	376854	52.103	ug/l	97
70) Styrene	12.18	104	615072	51.482	ug/l	98
71) Bromoform	12.35	173	114041	53.077	ug/l #	100
73) Isopropylbenzene	12.47	105	1035644	52.795	ug/l	100
74) N-amyl acetate	12.27	43	247866	49.049	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	166271	53.538	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	230348	100.691	ug/l	21
77) Bromobenzene	12.75	156	235978	55.083	ug/l	95
78) n-propylbenzene	12.80	91	1222021	51.868	ug/l	99
79) 2-Chlorotoluene	12.90	91	689849	51.888	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	850033	51.844	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	57533	49.672	ug/l	99
82) 4-Chlorotoluene	12.99	91	725045	51.222	ug/l	98
83) tert-Butylbenzene	13.21	119	777796	53.309	ug/l	97
84) 1,2,4-Trimethylbenzene	13.26	105	871223	52.278	ug/l	100
85) sec-Butylbenzene	13.39	105	1082840	51.967	ug/l	99
86) p-Isopropyltoluene	13.50	119	956324	52.395	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	465521	53.806	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	460101	53.510	ug/l	99
89) n-Butylbenzene	13.83	91	908459	50.692	ug/l	99
90) Hexachloroethane	14.10	117	184934	51.810	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	413450	54.008	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	28538	48.430	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW013019\
Quantitation Report (Not Reviewed)

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Quant Title : SW846 8260
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Response via : Initial Calibration

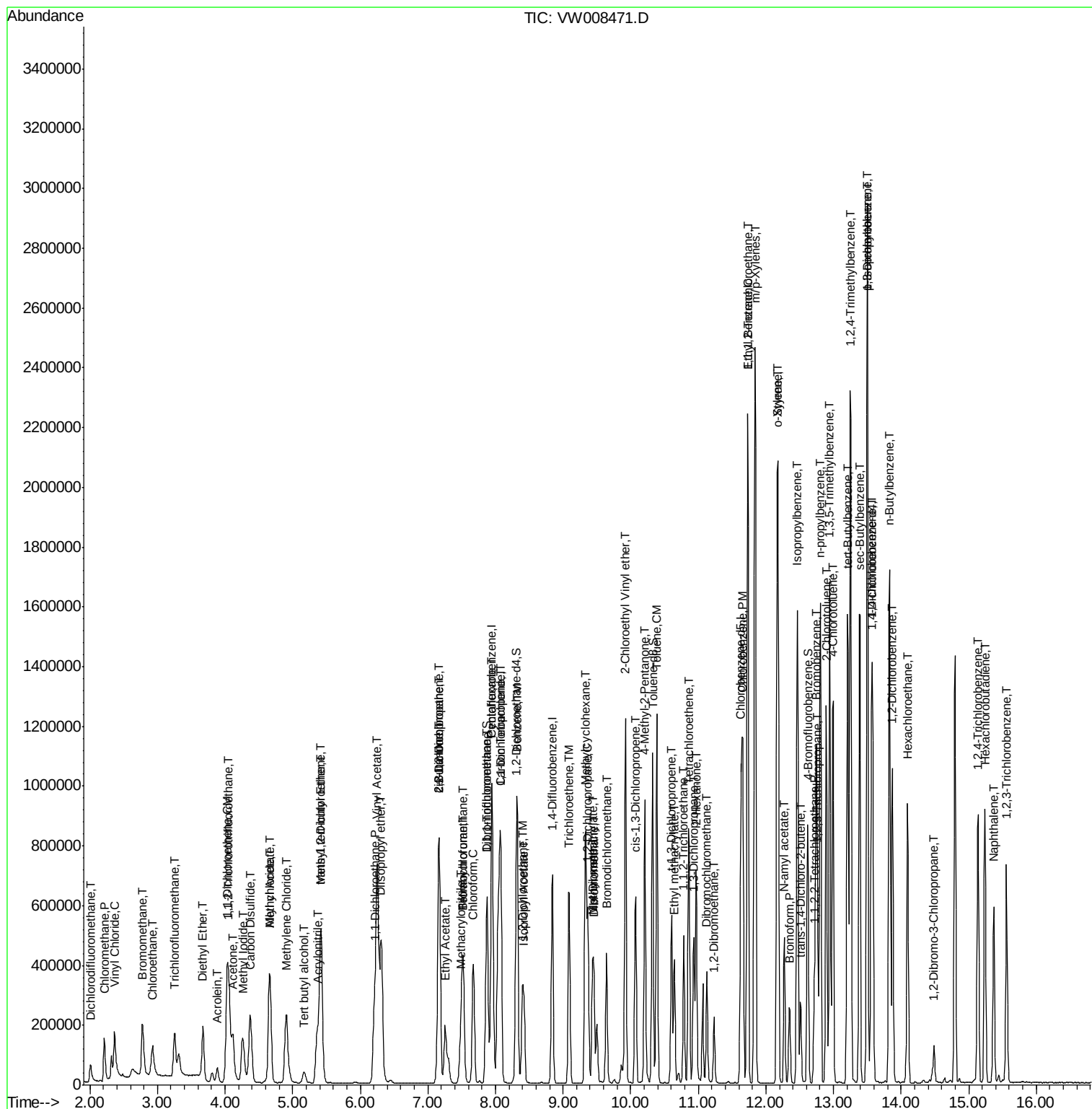
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	288991	52.900	ug/l	99
94) Hexachlorobutadiene	15.24	225	175359	53.263	ug/l	99
95) Naphthalene	15.37	128	507242	52.881	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	244623	52.787	ug/l	98

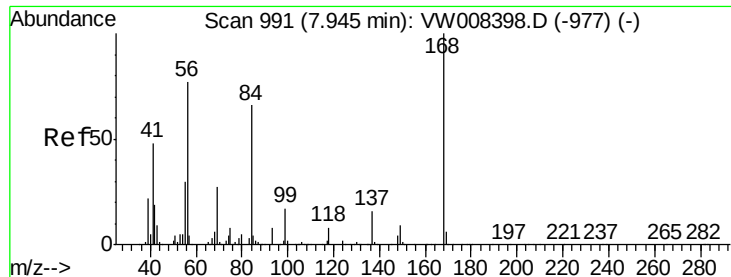
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

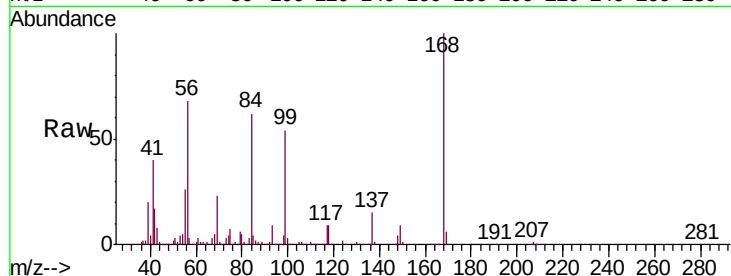
VSTDCCC050EC

Tgt Ion:168 Resp: 383729

Ion Ratio Lower Upper

168 100

99 53.7 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

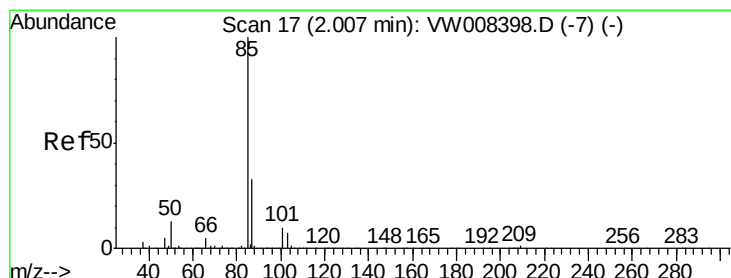
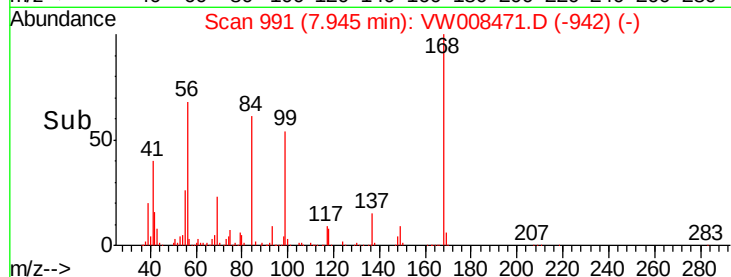
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50000

0

7.80 7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 46.122 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW008471.D

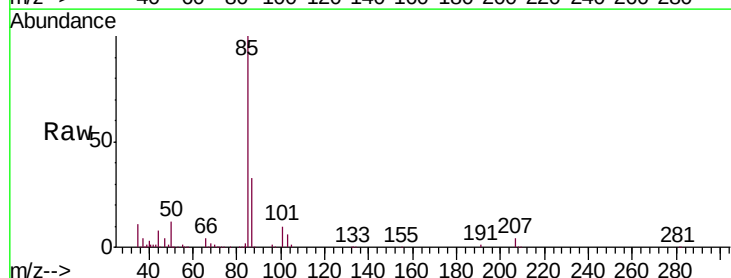
Acq: 30 Jan 2019 18:04

Tgt Ion: 85 Resp: 101678

Ion Ratio Lower Upper

85 100

87 33.0 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

30000

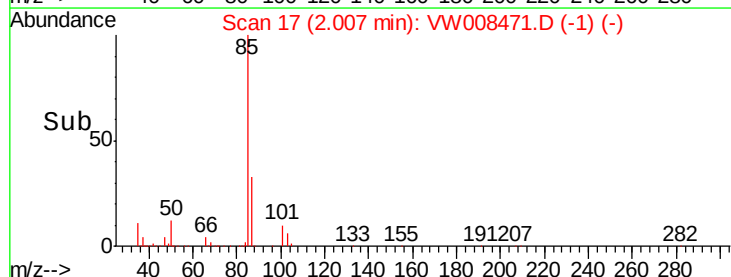
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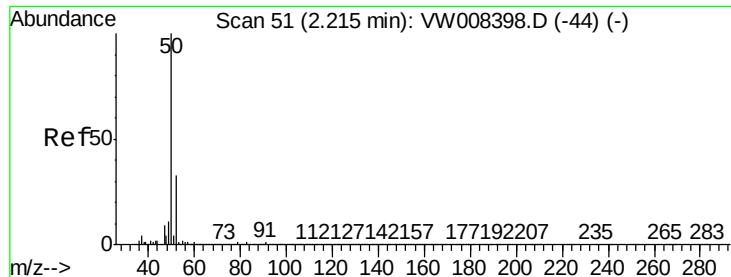
10000

0

1.90 2.00 2.10 2.20

Time-->





#3

Chloromethane

Concen: 44.382 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

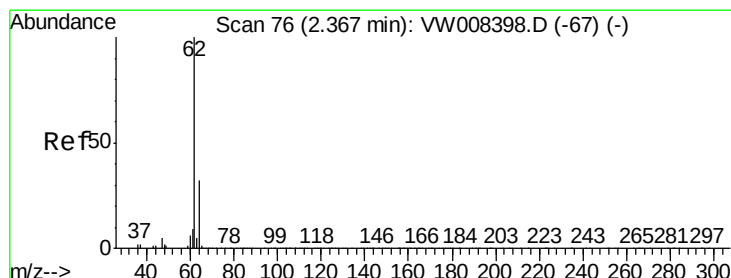
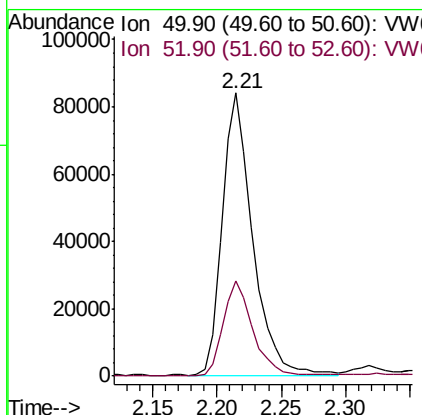
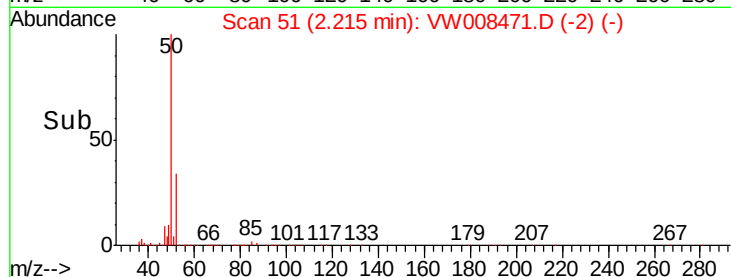
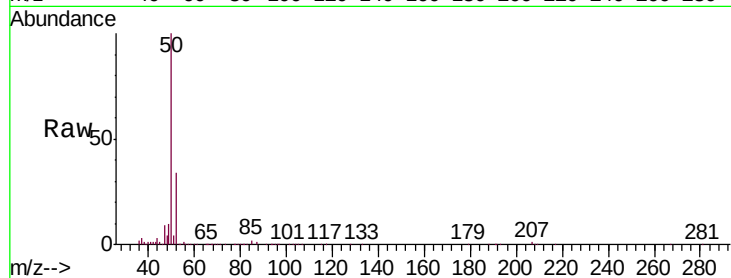
VSTDCCC050EC

Tgt Ion: 50 Resp: 139018

Ion Ratio Lower Upper

50 100

52 33.7 26.3 39.5



#4

Vinyl Chloride

Concen: 49.083 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW008471.D

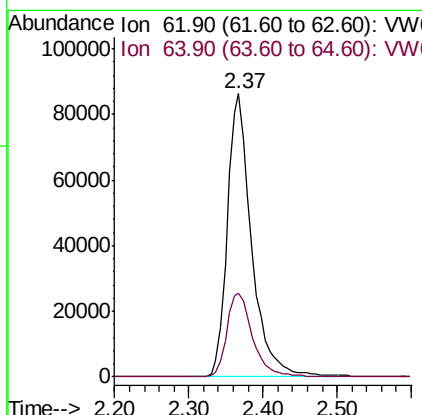
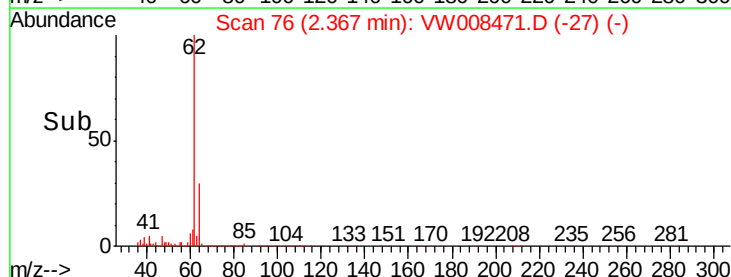
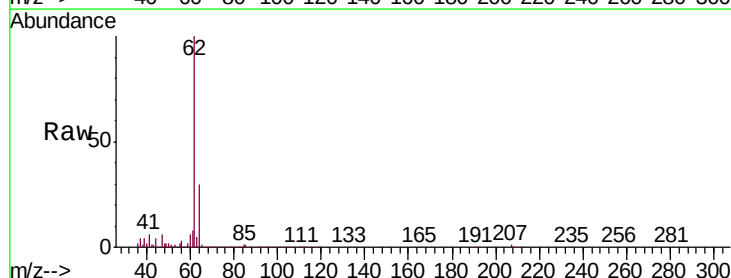
Acq: 30 Jan 2019 18:04

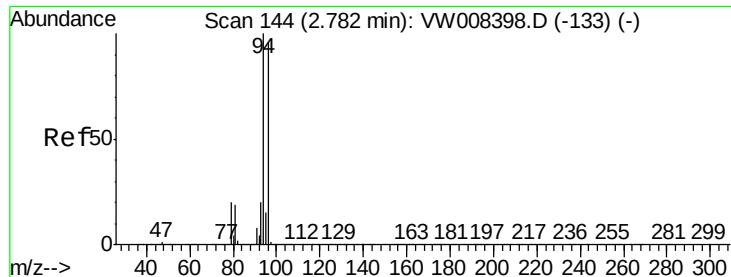
Tgt Ion: 62 Resp: 195708

Ion Ratio Lower Upper

62 100

64 29.6 25.5 38.3





#5

Bromomethane

Concen: 56.550 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

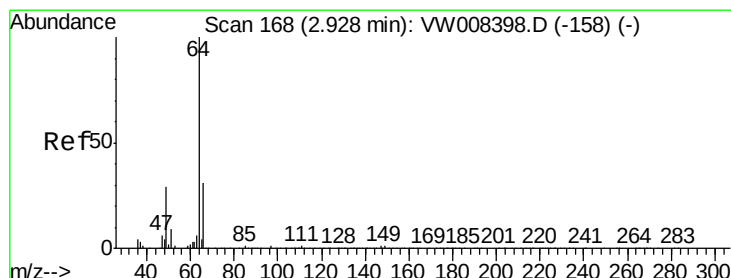
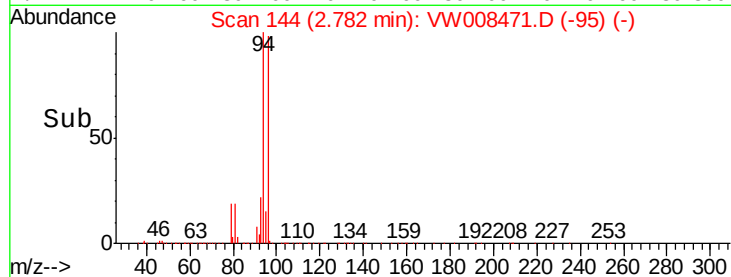
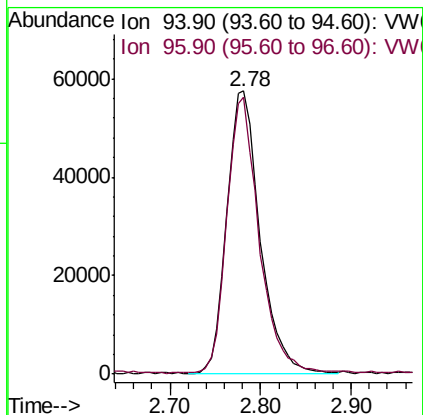
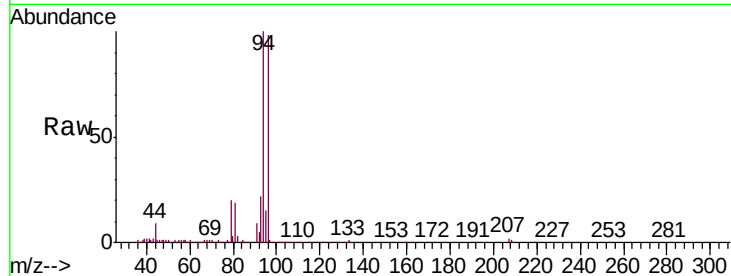
VSTDCCC050EC

Tgt Ion: 94 Resp: 145437

Ion Ratio Lower Upper

94 100

96 97.4 77.2 115.8



#6

Chloroethane

Concen: 56.160 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW008471.D

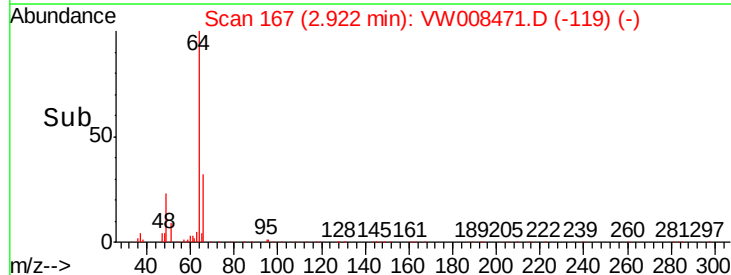
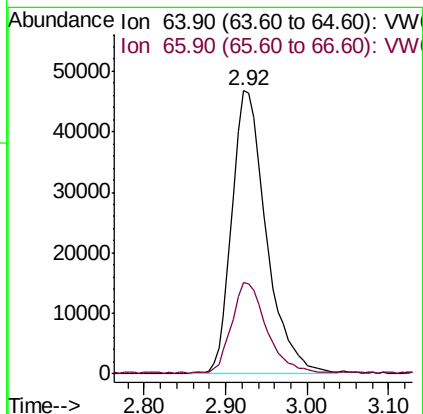
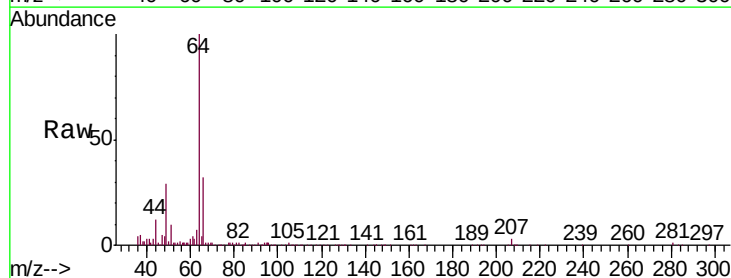
Acq: 30 Jan 2019 18:04

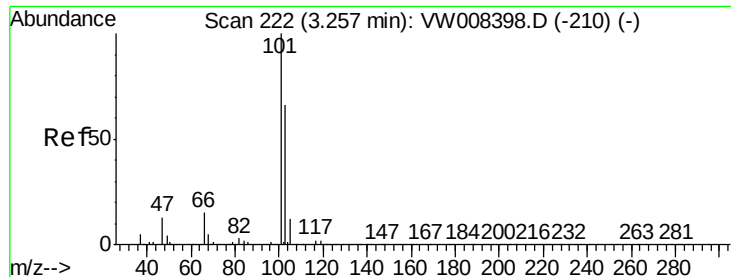
Tgt Ion: 64 Resp: 136948

Ion Ratio Lower Upper

64 100

66 31.7 24.9 37.3



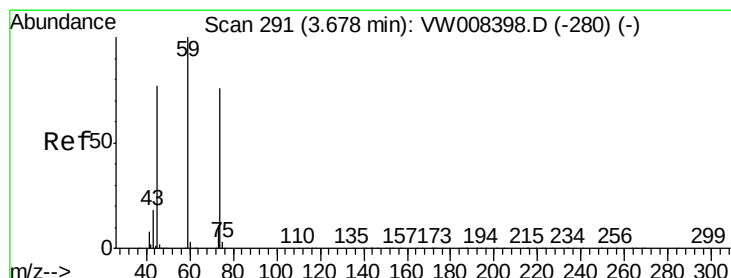
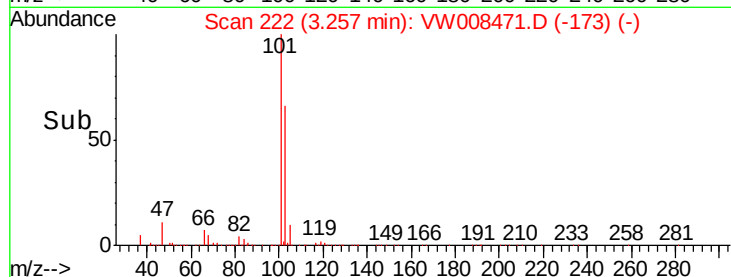
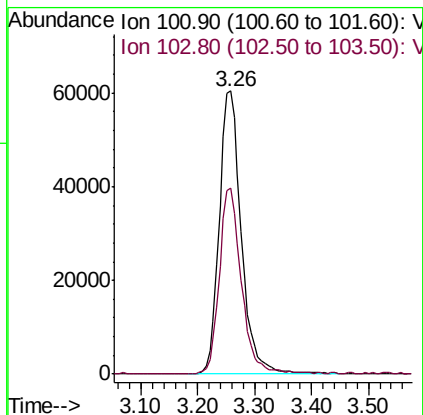
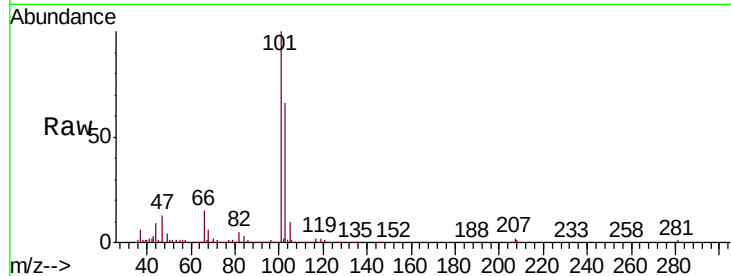


#7

Trichlorofluoromethane
Concen: 47.216 ug/l
RT: 3.26 min Scan# 222
Delta R.T. 0.00 min
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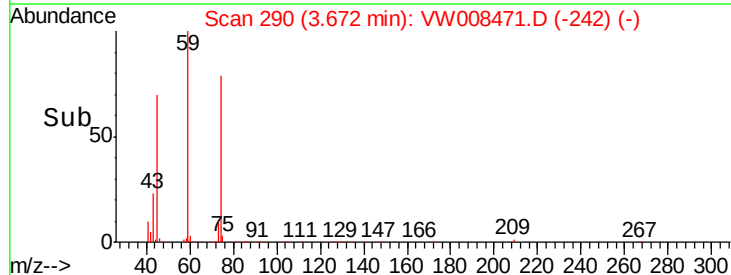
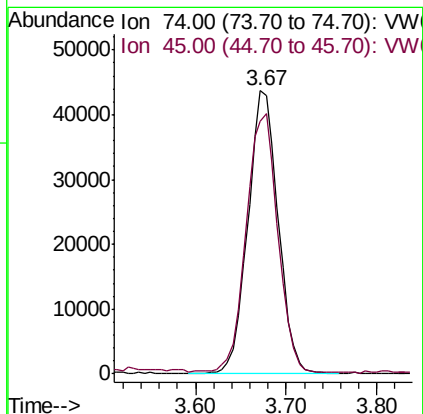
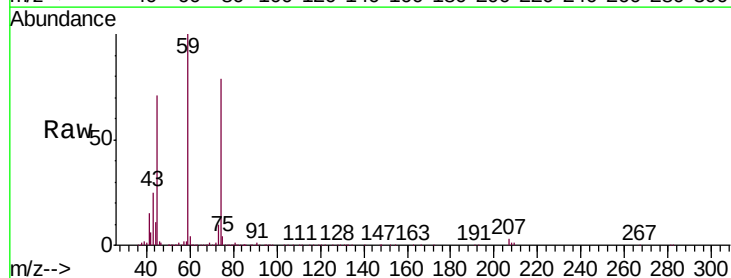
Tgt Ion:101 Resp: 162742
Ion Ratio Lower Upper
101 100
103 65.6 52.5 78.7

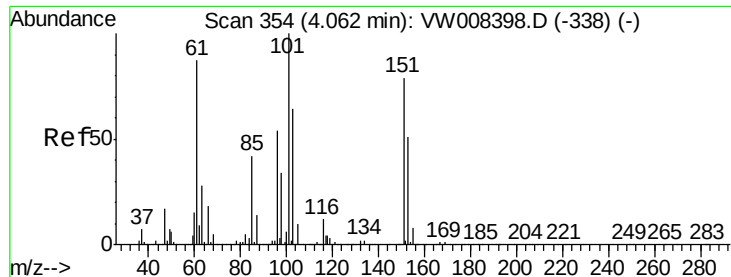


#8

Diethyl Ether
Concen: 52.454 ug/l
RT: 3.67 min Scan# 290
Delta R.T. -0.01 min
Lab File: VW008471.D
Acq: 30 Jan 2019 18:04

Tgt Ion: 74 Resp: 100379
Ion Ratio Lower Upper
74 100
45 95.6 51.7 155.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.299 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW008471.D

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Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

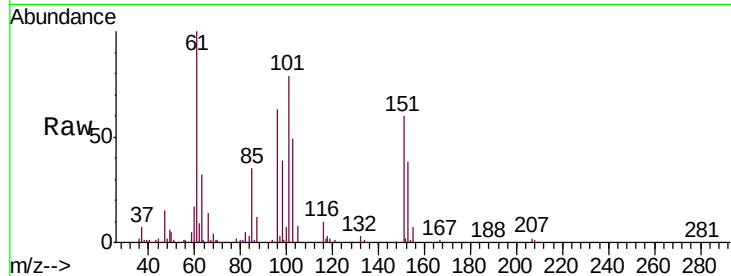
Tgt Ion:101 Resp: 184984

Ion Ratio Lower Upper

101 100

85 44.0 35.0 52.4

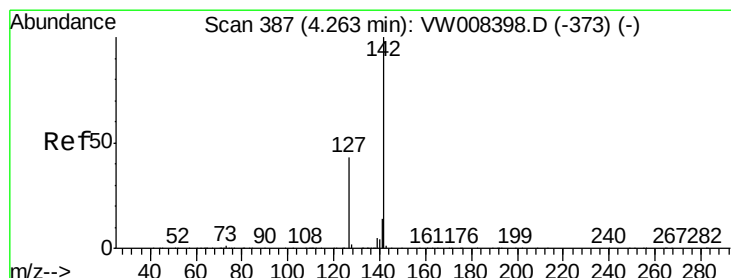
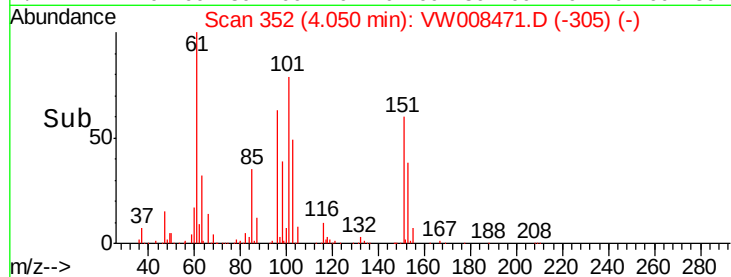
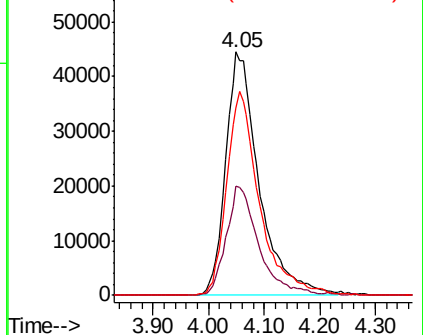
151 82.9 62.6 94.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 55.652 ug/l

RT: 4.26 min Scan# 387

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

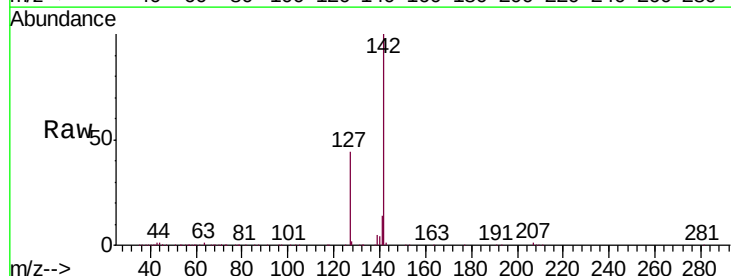
Tgt Ion:142 Resp: 305082

Ion Ratio Lower Upper

142 100

127 42.6 34.6 52.0

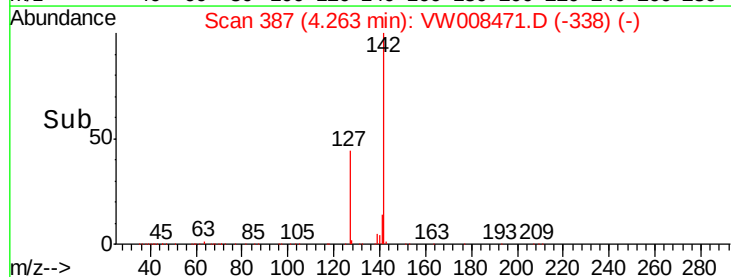
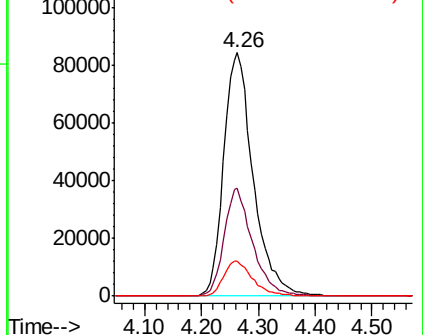
141 14.3 11.4 17.2

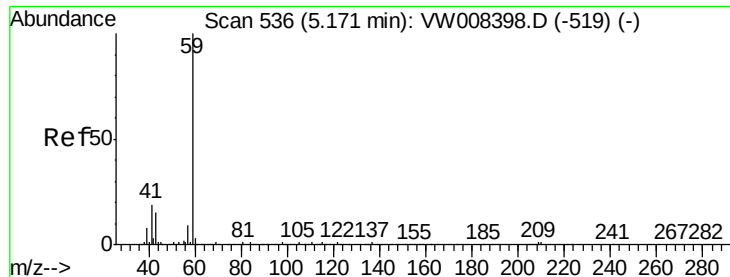


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



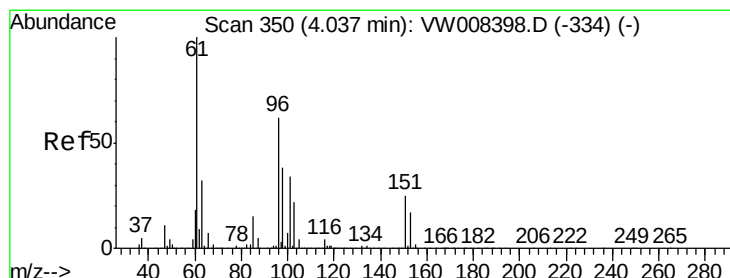
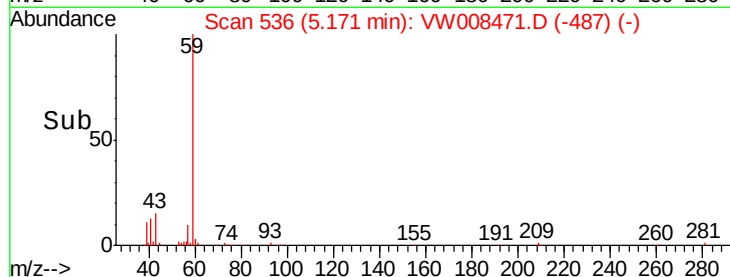
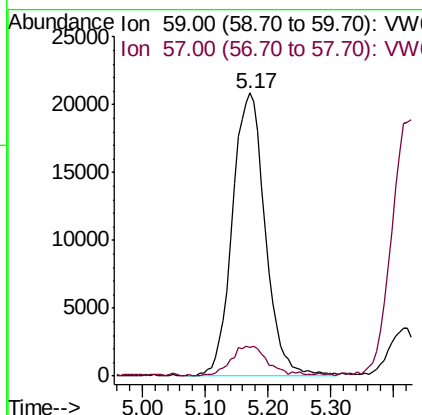
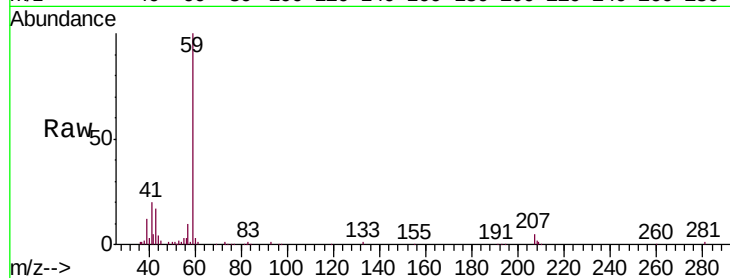


#11

Tert butyl alcohol
Concen: 249.362 ug/l
RT: 5.17 min Scan# 536
Delta R.T. 0.00 min
Lab File: VW008471.D
Acq: 30 Jan 2019 18:04

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

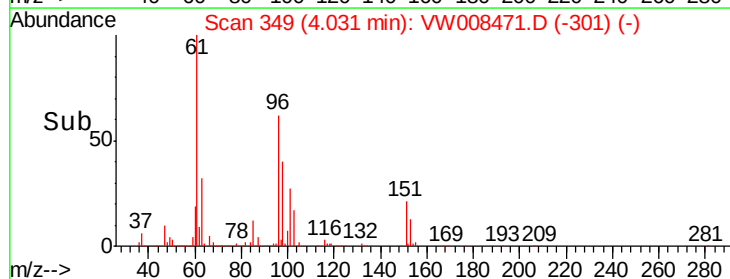
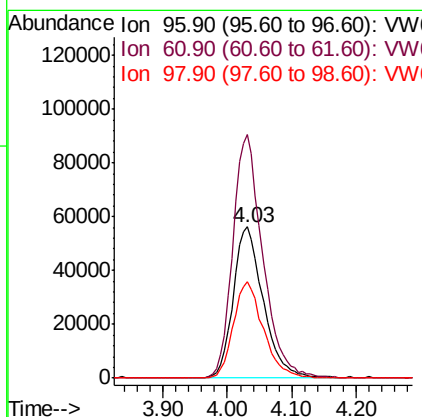
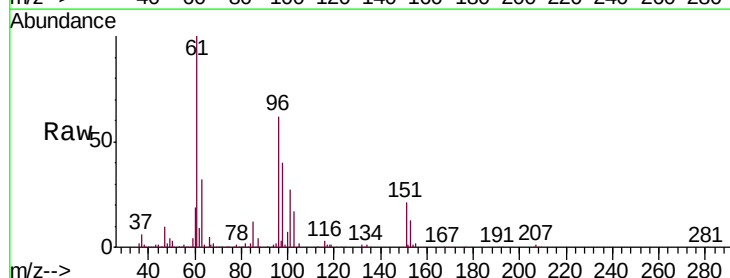
Tgt Ion: 59 Resp: 75684
Ion Ratio Lower Upper
59 100
57 11.7 9.3 13.9

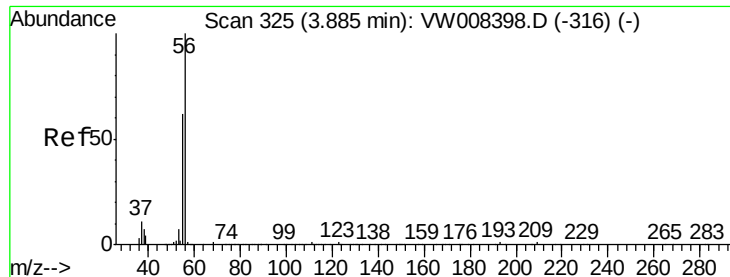


#12

1,1-Dichloroethene
Concen: 51.530 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW008471.D
Acq: 30 Jan 2019 18:04

Tgt Ion: 96 Resp: 180992
Ion Ratio Lower Upper
96 100
61 161.7 129.5 194.3
98 63.9 48.6 73.0





#13

Acrolein

Concen: 203.872 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

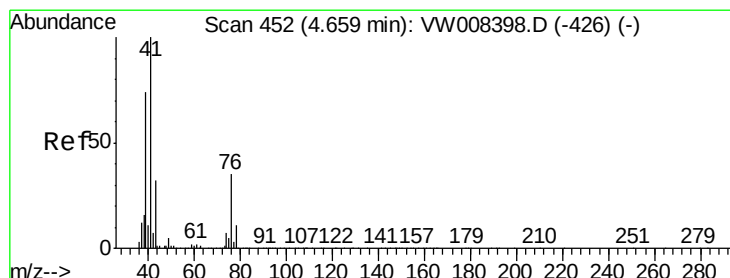
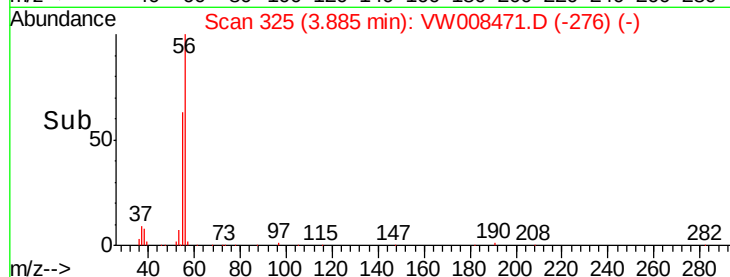
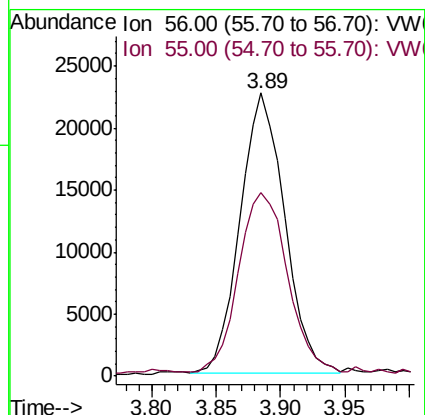
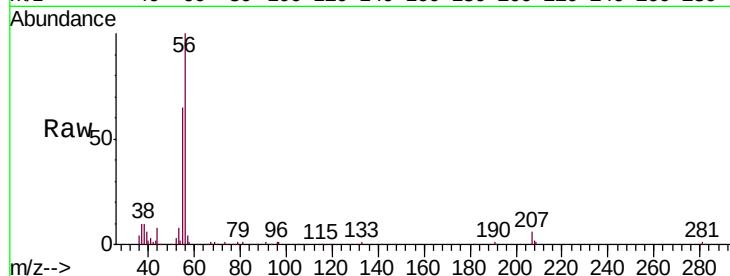
VSTDCCC050EC

Tgt Ion: 56 Resp: 54383

Ion Ratio Lower Upper

56 100

55 69.8 56.7 85.1



#14

Allyl chloride

Concen: 47.974 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

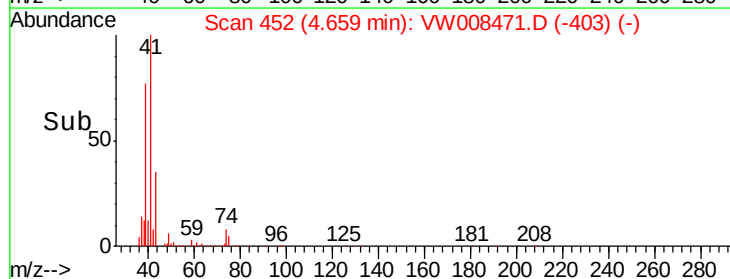
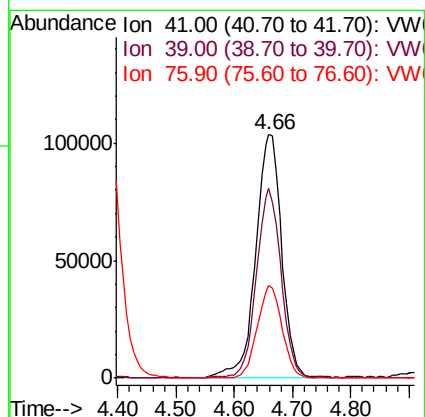
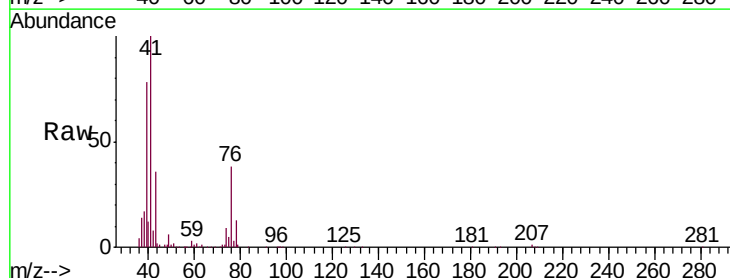
Tgt Ion: 41 Resp: 319966

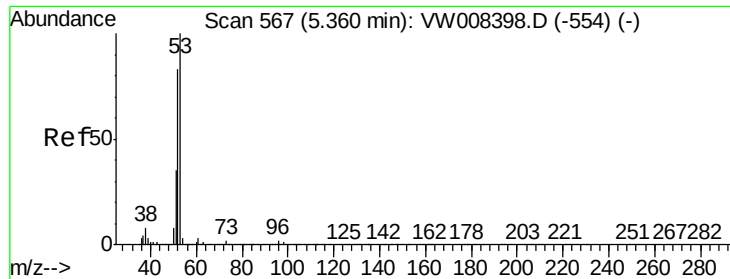
Ion Ratio Lower Upper

41 100

39 73.7 57.7 86.5

76 35.9 26.9 40.3





#15

Acrylonitrile

Concen: 255.564 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

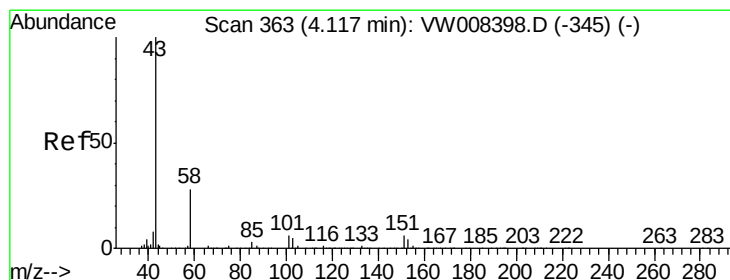
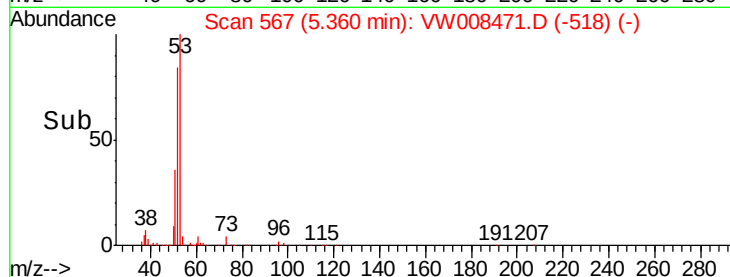
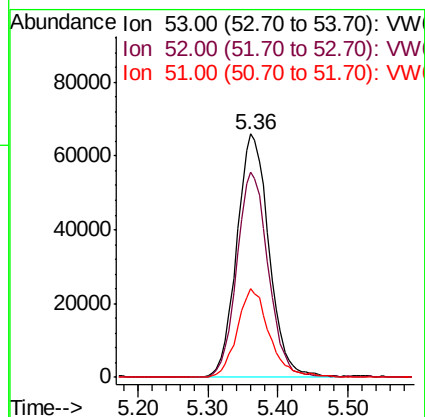
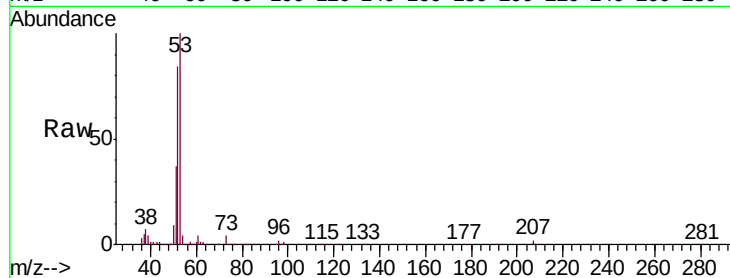
Tgt Ion: 53 Resp: 211180

Ion Ratio Lower Upper

53 100

52 82.3 67.0 100.4

51 36.5 29.8 44.8



#16

Acetone

Concen: 227.393 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008471.D

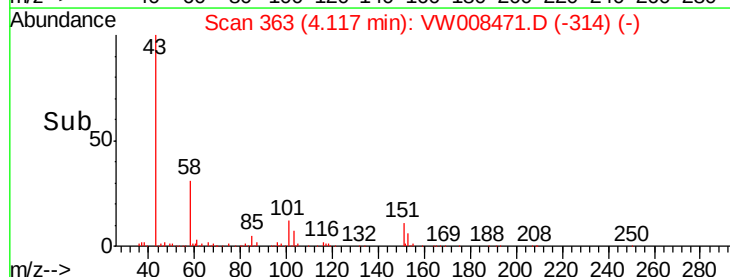
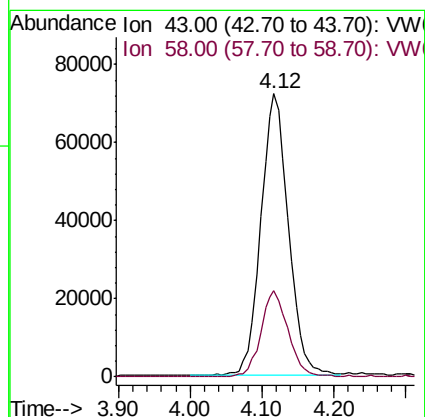
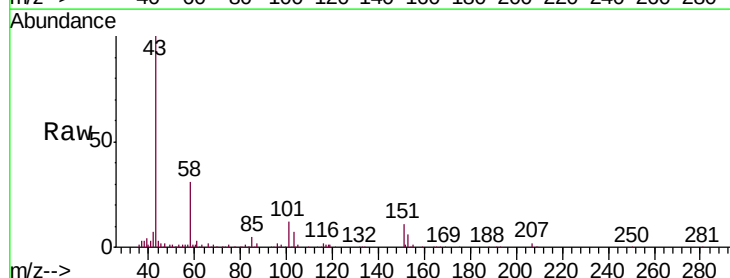
Acq: 30 Jan 2019 18:04

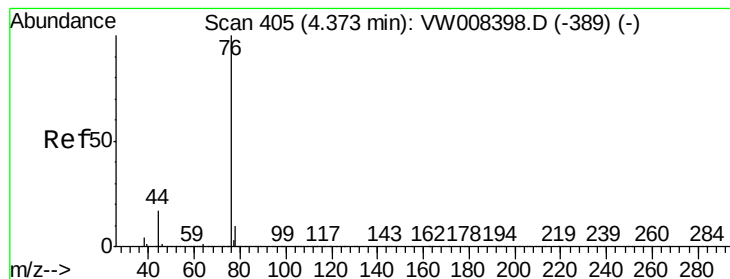
Tgt Ion: 43 Resp: 192502

Ion Ratio Lower Upper

43 100

58 30.6 22.6 34.0





#17

Carbon Disulfide

Concen: 47.076 ug/l

RT: 4.37 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

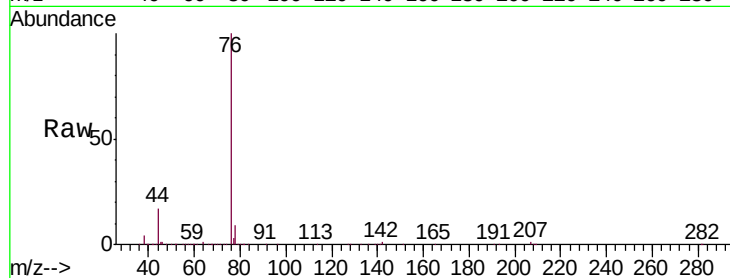
VSTDCCC050EC

Tgt Ion: 76 Resp: 528094

Ion Ratio Lower Upper

76 100

78 8.8 7.7 11.5



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.37

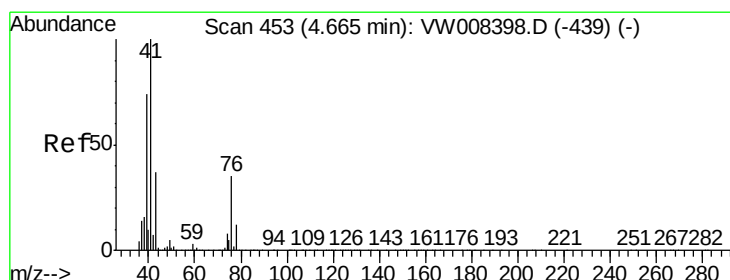
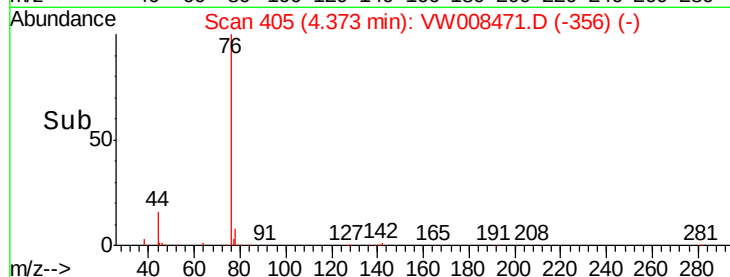
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 50.677 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW008471.D

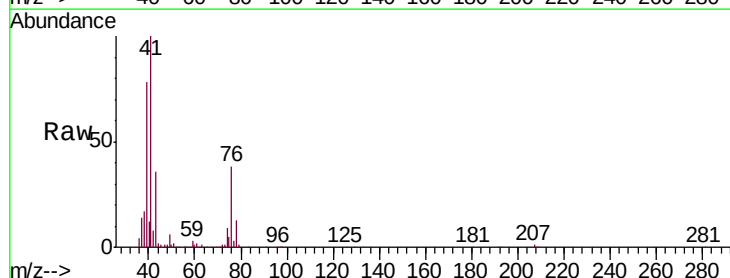
Acq: 30 Jan 2019 18:04

Tgt Ion: 43 Resp: 114426

Ion Ratio Lower Upper

43 100

74 24.4 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.66

40000

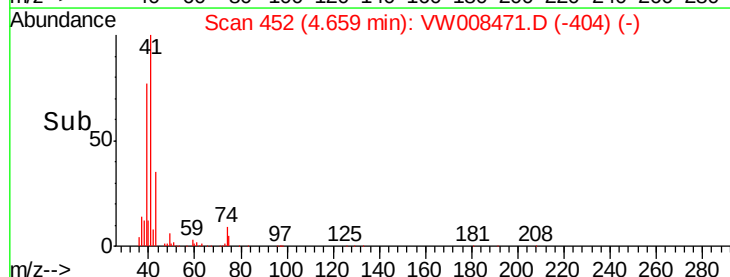
30000

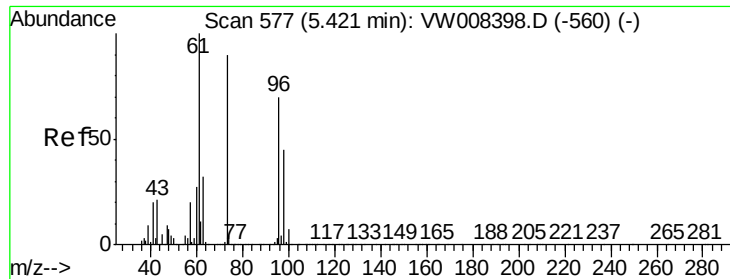
20000

10000

0

Time-->

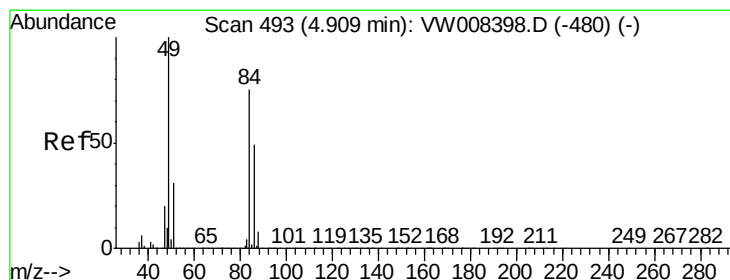
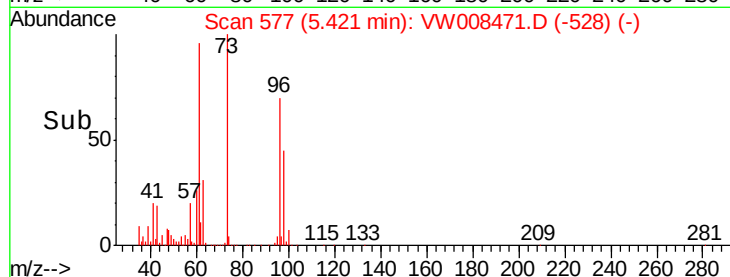
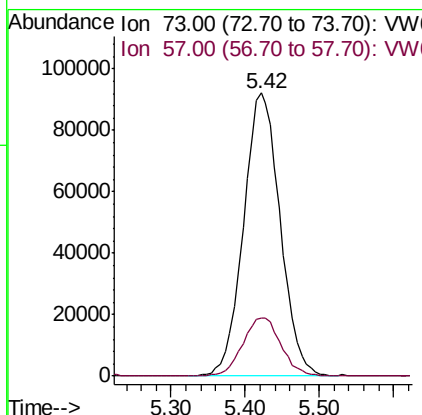
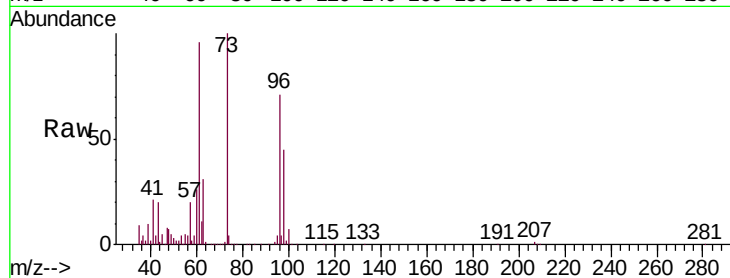




#19
Methyl tert-butyl Ether
Concen: 54.394 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW008471.D
Acq: 30 Jan 2019 18:04

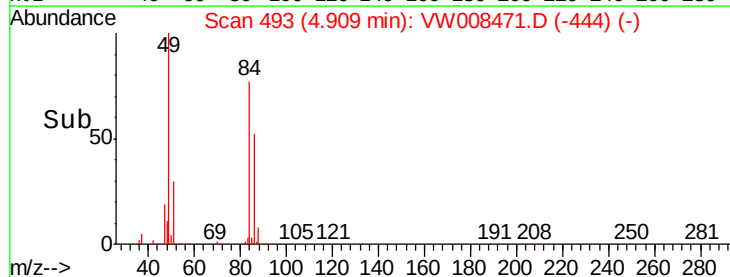
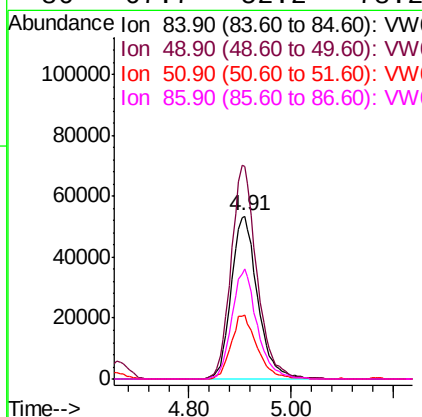
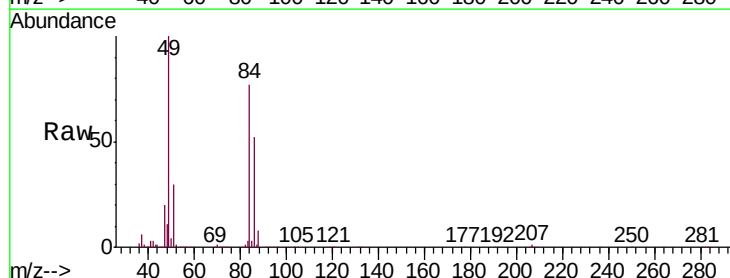
Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

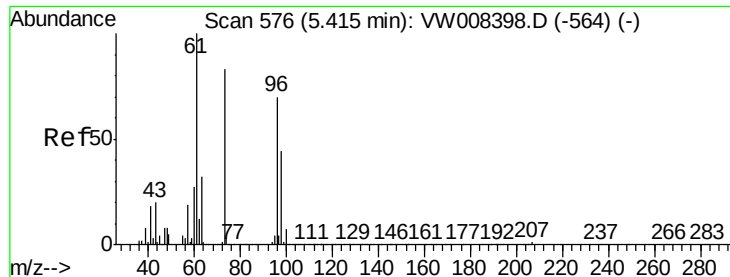
Tgt Ion: 73 Resp: 316104
Ion Ratio Lower Upper
73 100
57 20.3 18.0 27.0



#20
Methylene Chloride
Concen: 49.354 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW008471.D
Acq: 30 Jan 2019 18:04

Tgt Ion: 84 Resp: 192572
Ion Ratio Lower Upper
84 100
49 129.9 106.8 160.2
51 39.5 32.9 49.3
86 67.7 52.2 78.2





#21

trans-1,2-Dichloroethene

Concen: 51.551 ug/l

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

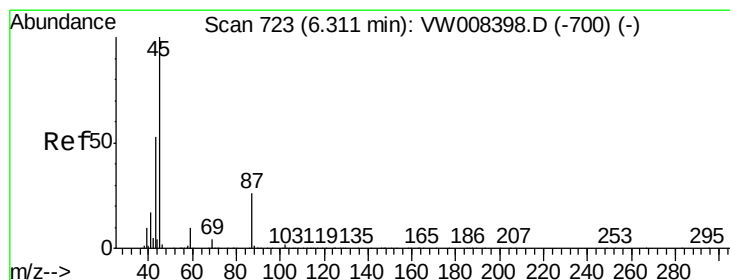
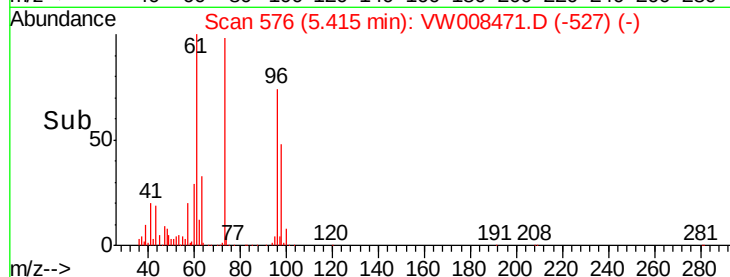
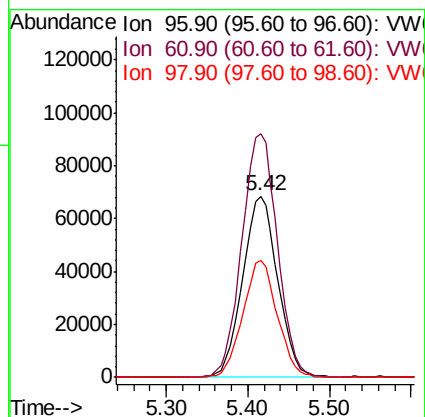
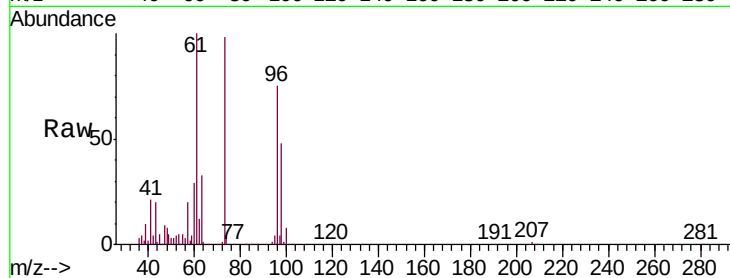
Tgt Ion: 96 Resp: 203561

Ion Ratio Lower Upper

96 100

61 134.4 114.4 171.6

98 64.4 50.6 75.8



#22

Diisopropyl ether

Concen: 48.966 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW008471.D

Acq: 30 Jan 2019 18:04

Tgt Ion: 45 Resp: 618957

Ion Ratio Lower Upper

45 100

43 55.9 42.6 63.8

87 26.3 20.3 30.5

59 10.7 8.4 12.6

