

Data File : VW008457.D
Acq On : 30 Jan 2019 11:25
Operator : SY/VA
Sample : VW0130SBS01
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0130SBS01

Quant Time: Jan 31 00:20:36 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	419396	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	630262	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	548434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	273406	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	192753	46.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.56%	
35) Dibromofluoromethane	7.88	113	196670	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
50) Toluene-d8	10.32	98	781084	52.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.70%	
62) 4-Bromofluorobenzene	12.62	95	275755	48.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.08%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.01	85	35344	16.887	ug/l	97
3) Chloromethane	2.21	50	52264	15.267	ug/l	94
4) Vinyl Chloride	2.37	62	77099	17.692	ug/l	96
5) Bromomethane	2.78	94	56115	19.963	ug/l	94
6) Chloroethane	2.93	64	50684	19.017	ug/l	99
7) Trichlorofluoromethane	3.26	101	57881	18.552	ug/l	95
8) Diethyl Ether	3.68	74	34721	16.601	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.06	101	72551	19.126	ug/l	98
10) Methyl Iodide	4.26	142	113705	18.978	ug/l	99
11) Tert butyl alcohol	5.17	59	25889	78.044	ug/l	99
12) 1,1-Dichloroethene	4.03	96	69369	18.070	ug/l	96
13) Acrolein	3.88	56	26554	93.396	ug/l	98
14) Allyl chloride	4.66	41	120566	16.540	ug/l	98
15) Acrylonitrile	5.36	53	69897	77.394	ug/l	98
16) Acetone	4.12	43	71353	77.118	ug/l	98
17) Carbon Disulfide	4.37	76	216028	17.620	ug/l	98
18) Methyl Acetate	4.67	43	35122	14.232	ug/l	92
19) Methyl tert-butyl Ether	5.42	73	103943	16.365	ug/l	98
20) Methylene Chloride	4.91	84	76509	17.941	ug/l	95
21) trans-1,2-Dichloroethene	5.42	96	77509	17.959	ug/l	94
22) Diisopropyl ether	6.31	45	220037	15.927	ug/l	97
23) Vinyl Acetate	6.25	43	610343	74.818	ug/l	97
24) 1,1-Dichloroethane	6.21	63	131814	16.856	ug/l	99
25) 2-Butanone	7.17	43	93535	72.781	ug/l	99
26) 2,2-Dichloropropane	7.16	77	95798	18.123	ug/l	100
27) cis-1,2-Dichloroethene	7.16	96	81958	17.425	ug/l	97
28) Bromochloromethane	7.51	49	59314	16.514	ug/l	93
29) Tetrahydrofuran	7.52	42	57681	70.826	ug/l	94
30) Chloroform	7.67	83	132668	17.248	ug/l	97
31) Cyclohexane	7.95	56	136825	16.921	ug/l	# 96
32) 1,1,1-Trichloroethane	7.87	97	120593	18.152	ug/l	99
36) 1,1-Dichloropropene	8.08	75	111826	18.783	ug/l	97
37) Ethyl Acetate	7.25	43	41070	15.592	ug/l	97
38) Carbon Tetrachloride	8.07	117	117598	19.629	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	145359	18.586	ug/l	94
40) Benzene	8.32	78	301761	18.266	ug/l	96
41) Methacrylonitrile	7.49	41	24726	15.854	ug/l	96
42) 1,2-Dichloroethane	8.40	62	81710	17.067	ug/l	98
43) Isopropyl Acetate	8.42	43	82253	15.031	ug/l	95
44) Trichloroethene	9.09	130	87139	19.397	ug/l	95
45) 1,2-Dichloropropane	9.37	63	71445	17.345	ug/l	94
46) Dibromomethane	9.46	93	38194	18.028	ug/l	98
47) Bromodichloromethane	9.64	83	97413	17.383	ug/l	99
48) Methyl methacrylate	9.43	41	38834	14.513	ug/l	97
49) 1,4-Dioxane	9.45	88	12658	353.464	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	199448	73.775	ug/l	99
52) Toluene	10.38	92	194429	17.829	ug/l	97
53) t-1,3-Dichloropropene	10.60	75	98794	16.568	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	118160	17.461	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	51076	17.381	ug/l	97
56) Ethyl methacrylate	10.65	69	63285	15.369	ug/l	96
57) 1,3-Dichloropropane	10.93	76	88834	16.874	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	161470	80.708	ug/l	96
59) 2-Hexanone	10.97	43	137937	72.274	ug/l	100
60) Dibromochloromethane	11.13	129	65570	17.363	ug/l	99
61) 1,2-Dibromoethane	11.24	107	48058	16.493	ug/l	97
64) Tetrachloroethene	10.86	164	73959	19.918	ug/l	94
65) Chlorobenzene	11.66	112	211833	18.921	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.73	131	74754	18.663	ug/l	96
67) Ethyl Benzene	11.73	91	381487	18.538	ug/l	98
68) m/p-Xylenes	11.84	106	297386	37.245	ug/l	97
69) o-Xylene	12.16	106	140419	18.509	ug/l	97
70) Styrene	12.18	104	221301	17.660	ug/l	98
71) Bromoform	12.35	173	38119	16.914	ug/l #	98
73) Isopropylbenzene	12.46	105	392819	19.272	ug/l	100
74) N-amyl acetate	12.27	43	78465	14.943	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	54435	16.868	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	75926	31.941	ug/l	28
77) Bromobenzene	12.75	156	84963	19.087	ug/l	93
78) n-propylbenzene	12.80	91	463059	18.915	ug/l	98
79) 2-Chlorotoluene	12.90	91	256898	18.596	ug/l	96
80) 1,3,5-Trimethylbenzene	12.94	105	320917	18.837	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	18826	15.642	ug/l	97
82) 4-Chlorotoluene	12.99	91	263407	17.909	ug/l	95
83) tert-Butylbenzene	13.21	119	293971	19.390	ug/l	97
84) 1,2,4-Trimethylbenzene	13.26	105	322993	18.652	ug/l	99
85) sec-Butylbenzene	13.39	105	409603	18.918	ug/l	98
86) p-Isopropyltoluene	13.50	119	361704	19.072	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	172540	19.192	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	169580	18.981	ug/l	99
89) n-Butylbenzene	13.83	91	344647	18.508	ug/l	98
90) Hexachloroethane	14.10	117	70258	18.943	ug/l	99
91) 1,2-Dichlorobenzene	13.88	146	149689	18.818	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	9848	16.084	ug/l	95

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

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QLast Update : Fri Jan 25 11:07:41 2019
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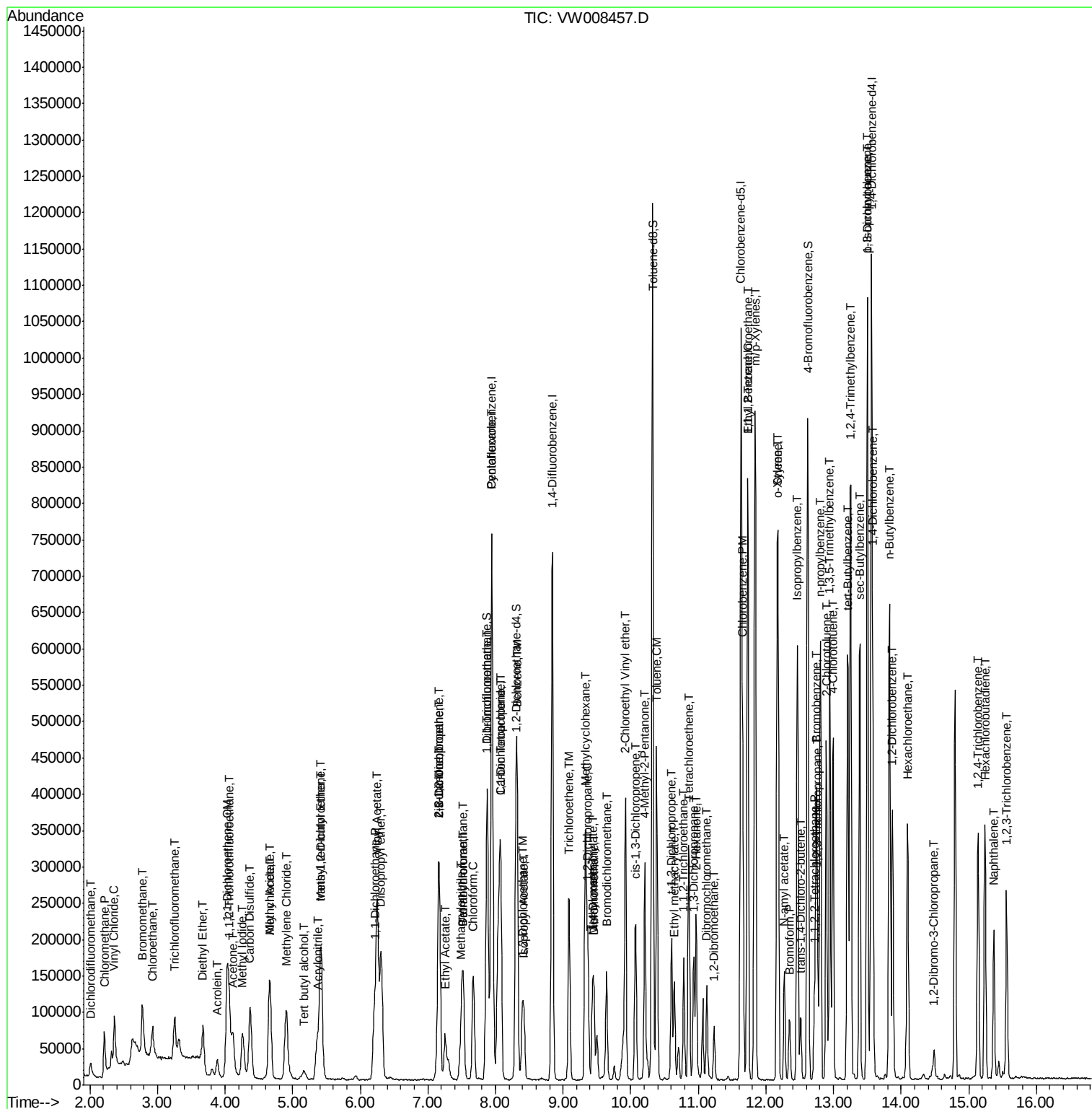
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	108655	19.141	ug/l	99
94) Hexachlorobutadiene	15.24	225	68553	20.039	ug/l	99
95) Naphthalene	15.37	128	173758	17.433	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	89981	18.687	ug/l	98

(#) = 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: VW008457.D

Acq: 30 Jan 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

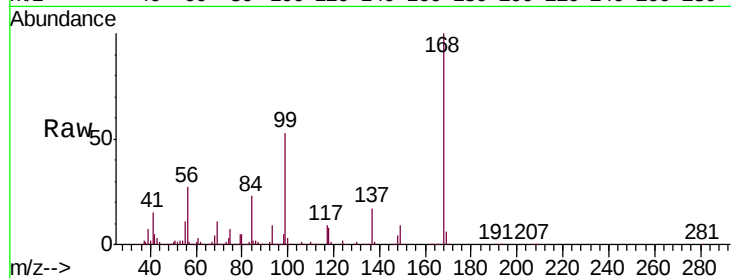
VW0130SBS01

Tgt Ion:168 Resp: 419396

Ion Ratio Lower Upper

168 100

99 52.8 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

100000

50000

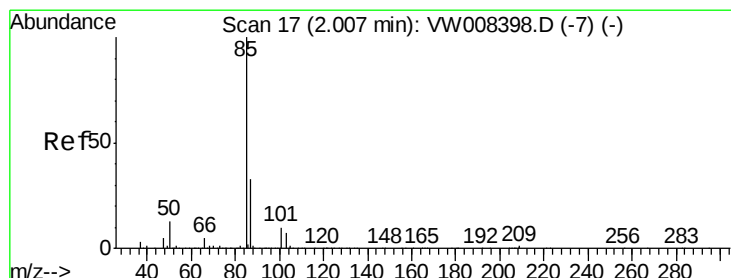
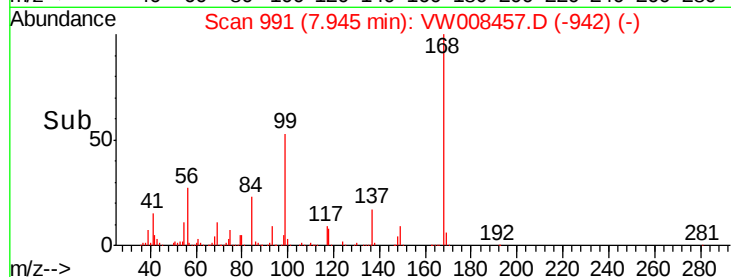
0

7.80

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 16.887 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW008457.D

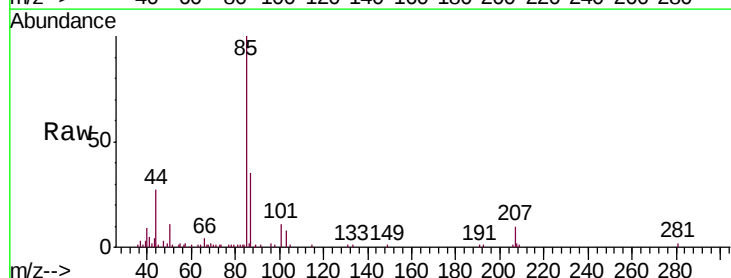
Acq: 30 Jan 2019 11:25

Tgt Ion: 85 Resp: 35344

Ion Ratio Lower Upper

85 100

87 34.9 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

12000

10000

8000

6000

4000

2000

0

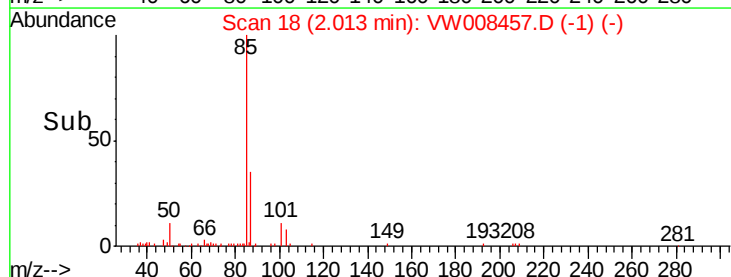
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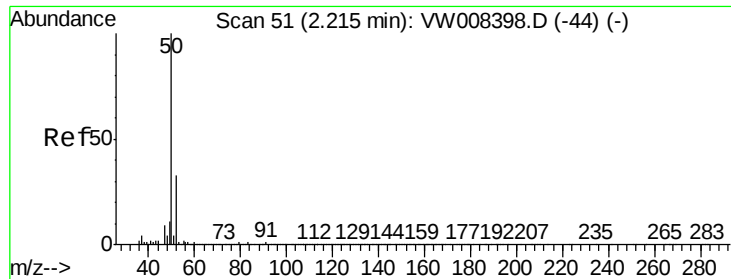
2.00

2.10

2.20

Time-->





#3

Chloromethane

Concen: 15.267 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW008457.D

Acq: 30 Jan 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

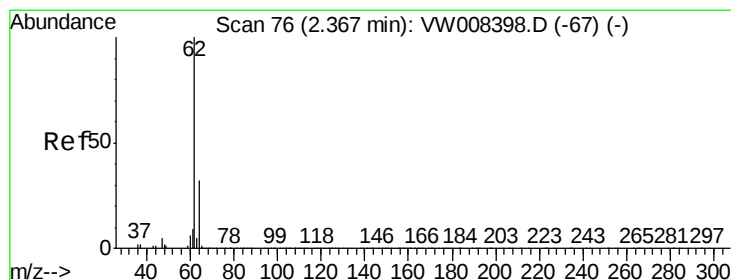
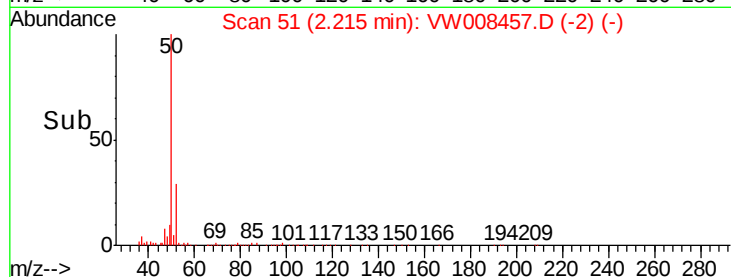
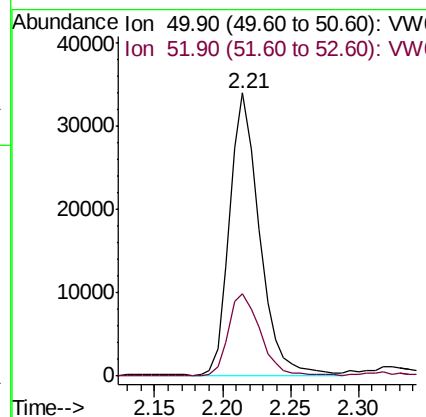
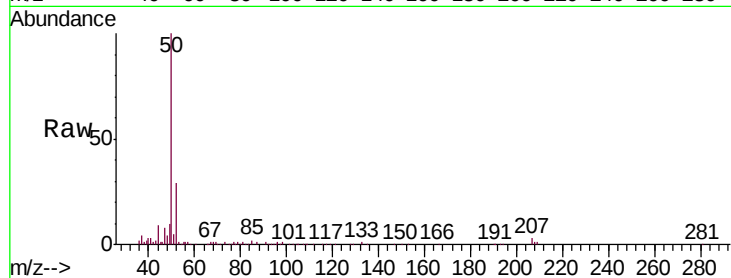
VW0130SBS01

Tgt Ion: 50 Resp: 52264

Ion Ratio Lower Upper

50 100

52 29.3 26.3 39.5



#4

Vinyl Chloride

Concen: 17.692 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW008457.D

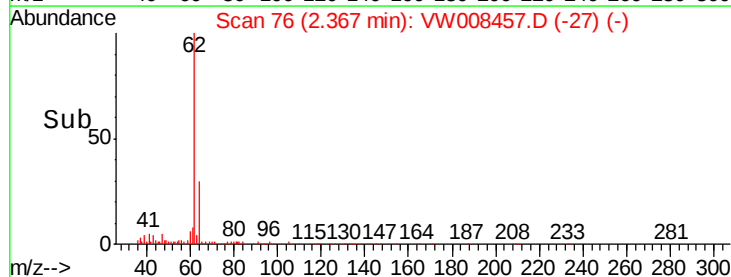
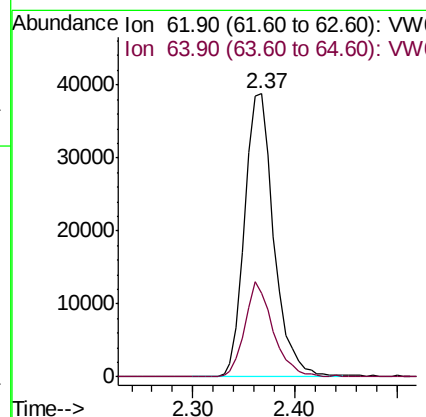
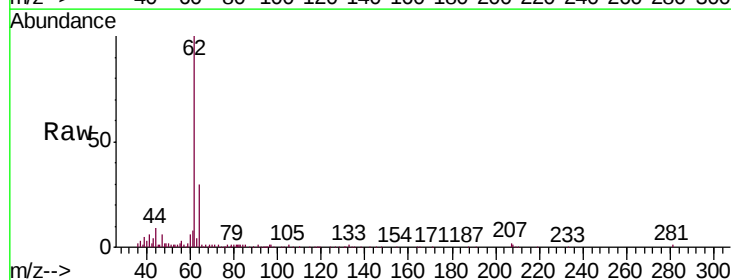
Acq: 30 Jan 2019 11:25

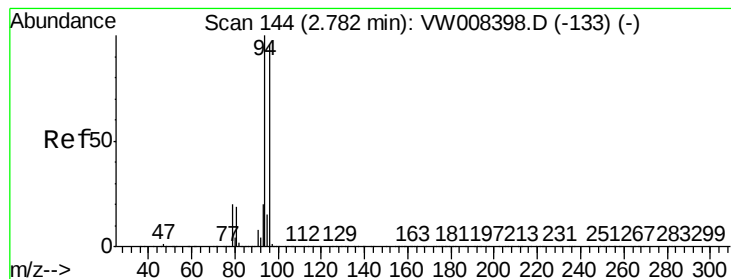
Tgt Ion: 62 Resp: 77099

Ion Ratio Lower Upper

62 100

64 29.7 25.5 38.3





#5

Bromomethane

Concen: 19.963 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW008457.D

Acq: 30 Jan 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

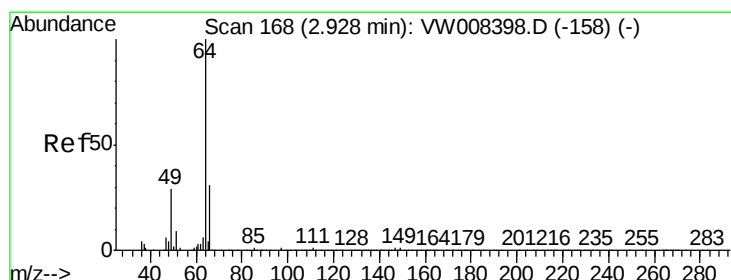
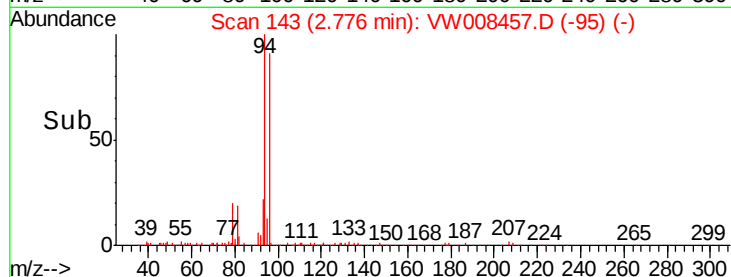
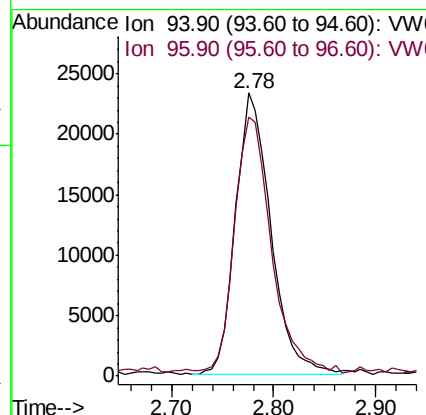
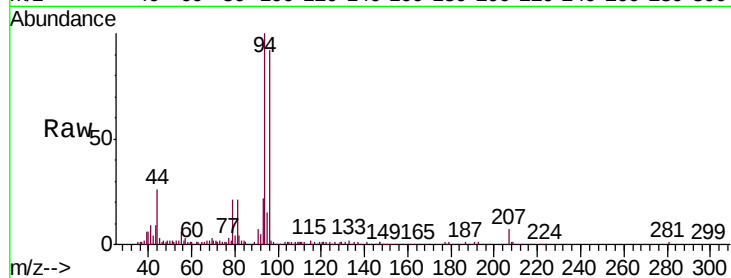
VW0130SBS01

Tgt Ion: 94 Resp: 56115

Ion Ratio Lower Upper

94 100

96 91.1 77.2 115.8



#6

Chloroethane

Concen: 19.017 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW008457.D

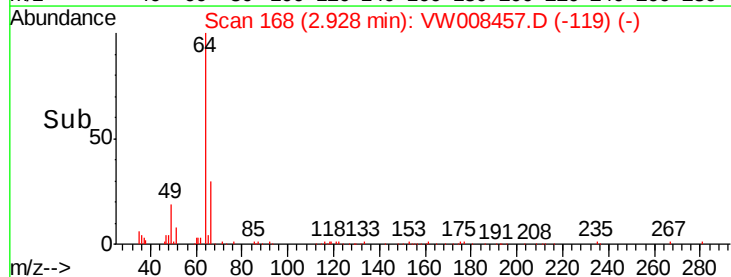
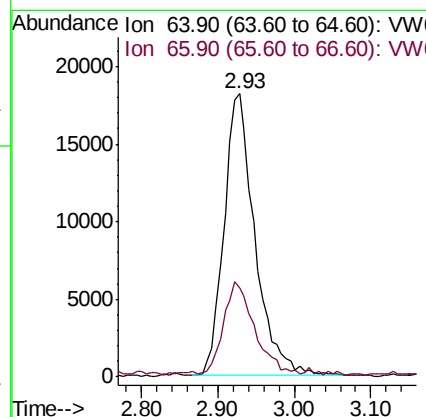
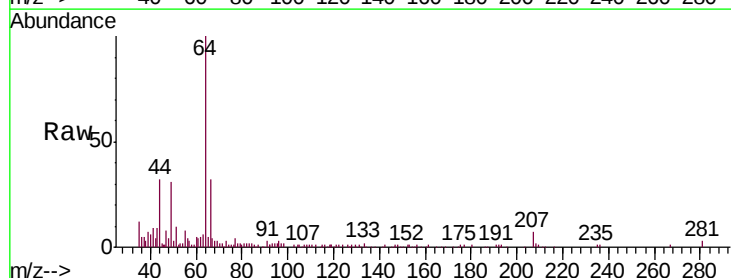
Acq: 30 Jan 2019 11:25

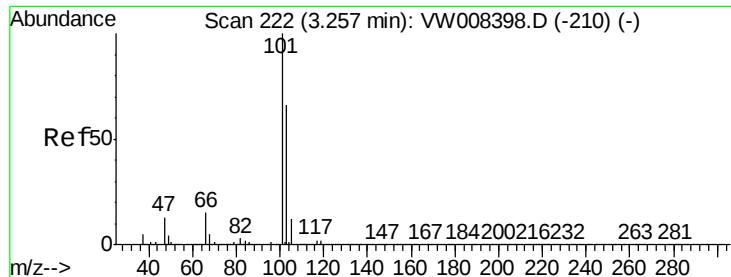
Tgt Ion: 64 Resp: 50684

Ion Ratio Lower Upper

64 100

66 30.8 24.9 37.3



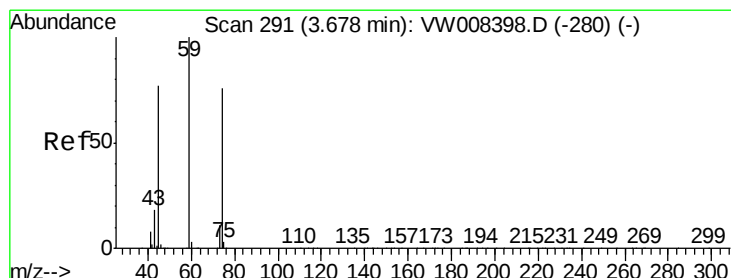
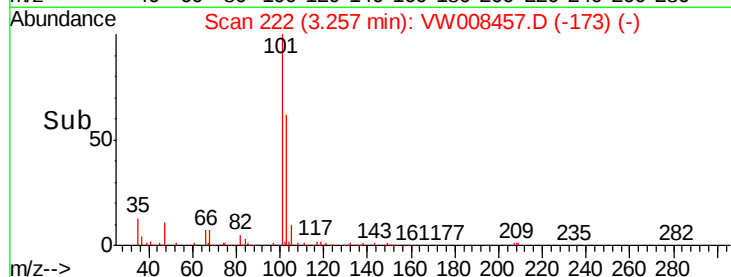
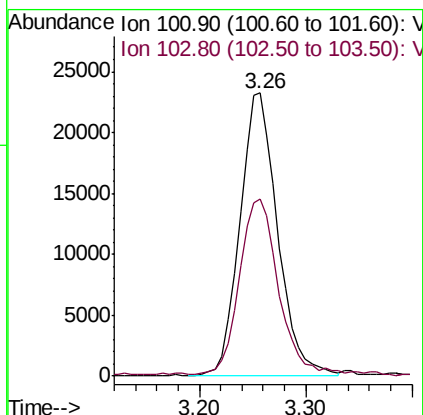
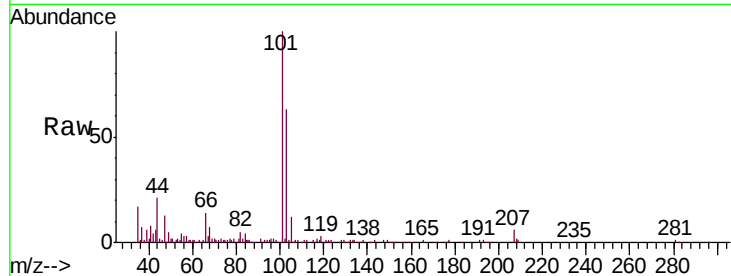


#7

Trichlorofluoromethane
Concen: 18.552 ug/l
RT: 3.26 min Scan# 222
Delta R.T. 0.00 min
Lab File: VW008457.D
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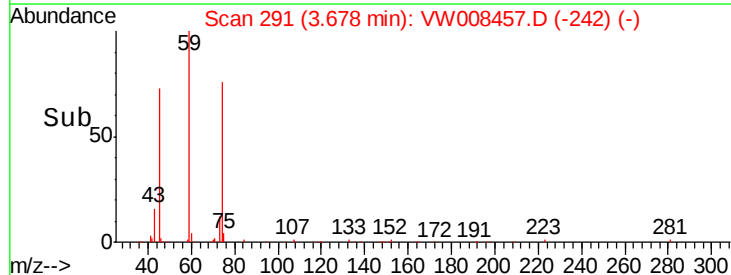
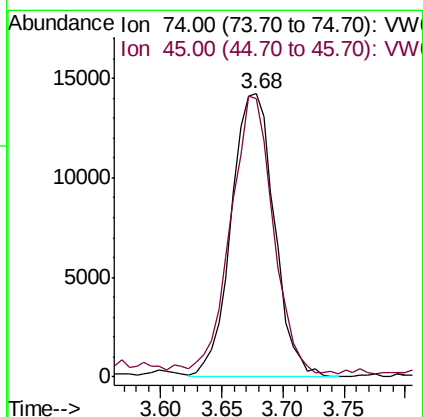
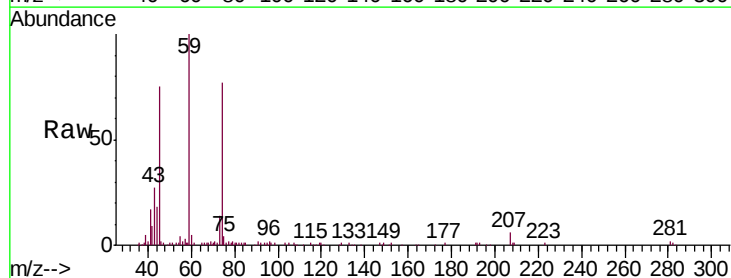
Tgt Ion:101 Resp: 57881
Ion Ratio Lower Upper
101 100
103 61.9 52.5 78.7

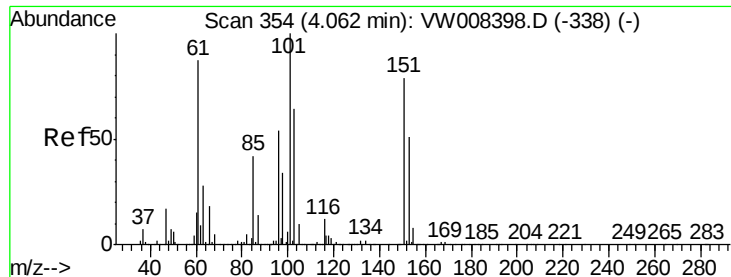


#8

Diethyl Ether
Concen: 16.601 ug/l
RT: 3.68 min Scan# 291
Delta R.T. 0.00 min
Lab File: VW008457.D
Acq: 30 Jan 2019 11:25

Tgt Ion: 74 Resp: 34721
Ion Ratio Lower Upper
74 100
45 96.1 51.7 155.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.126 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW008457.D

Acq: 30 Jan 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

VW0130SBS01

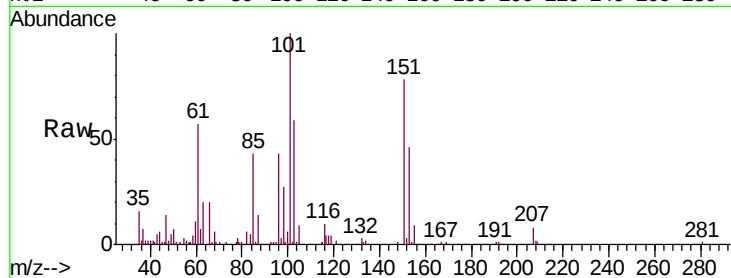
Tgt Ion:101 Resp: 72551

Ion Ratio Lower Upper

101 100

85 44.2 35.0 52.4

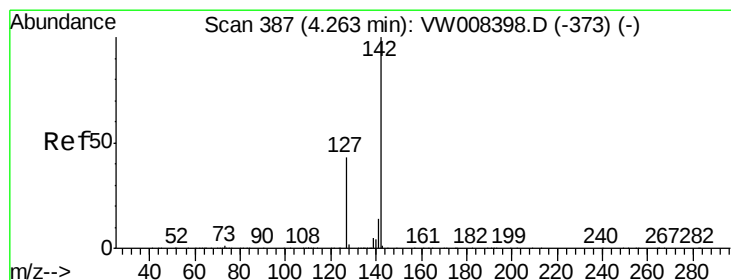
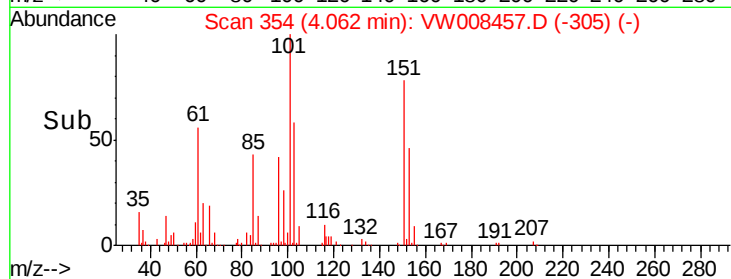
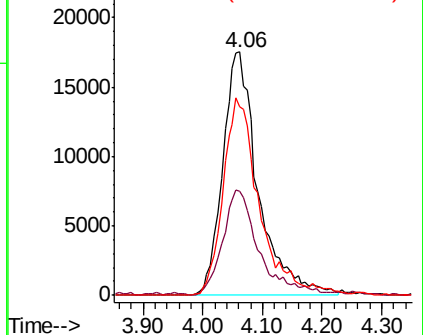
151 80.5 62.6 94.0



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: 18.978 ug/l

RT: 4.26 min Scan# 386

Delta R.T. -0.01 min

Lab File: VW008457.D

Acq: 30 Jan 2019 11:25

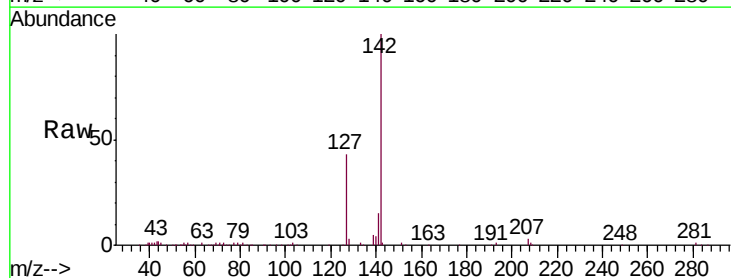
Tgt Ion:142 Resp: 113705

Ion Ratio Lower Upper

142 100

127 42.9 34.6 52.0

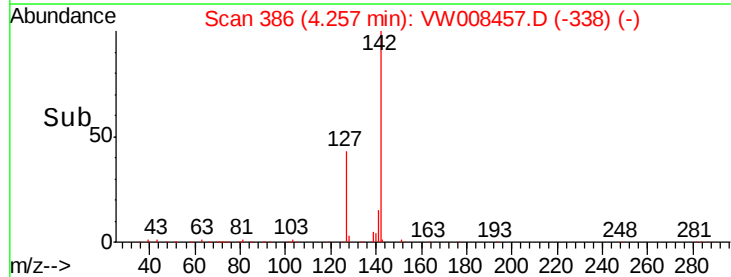
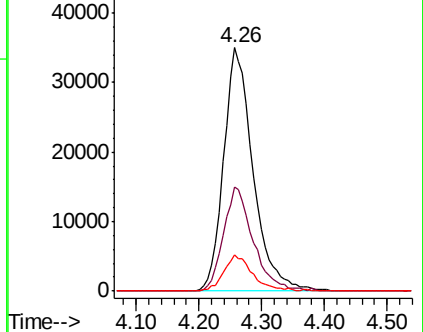
141 14.5 11.4 17.2

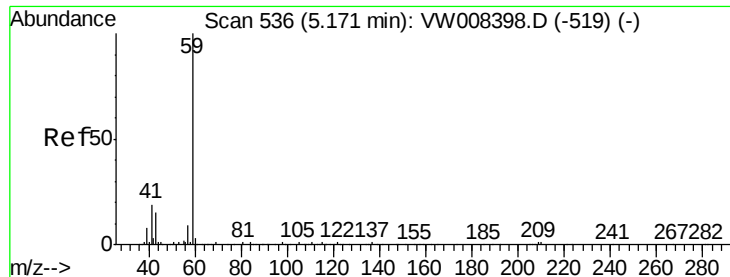


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



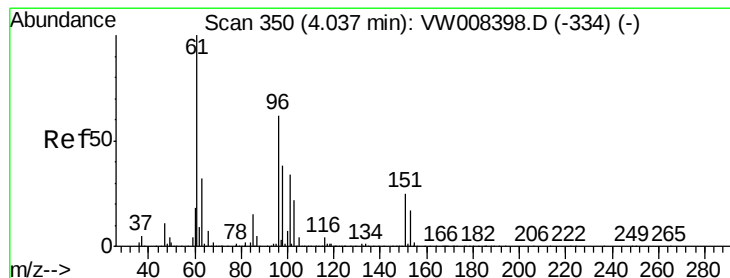
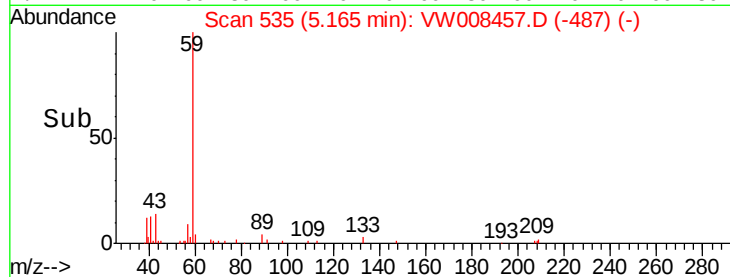
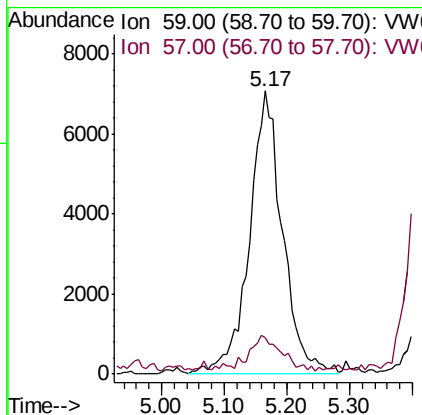
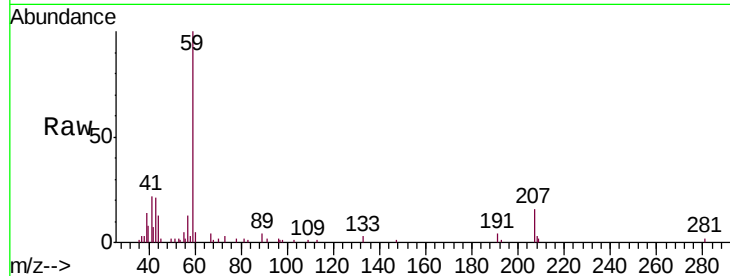


#11

Tert butyl alcohol
Concen: 78.044 ug/l
RT: 5.17 min Scan# 535
Delta R.T. -0.01 min
Lab File: VW008457.D
Acq: 30 Jan 2019 11:25

Instrument :
MSVOA_W
ClientSampleId :
VW0130SBS01

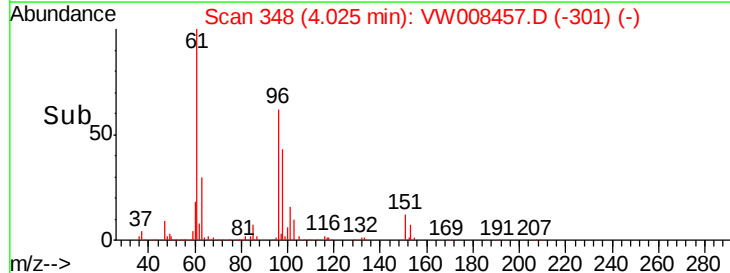
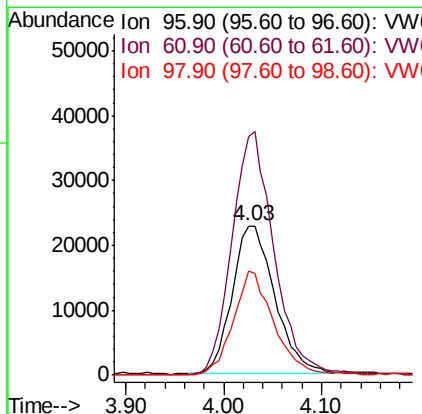
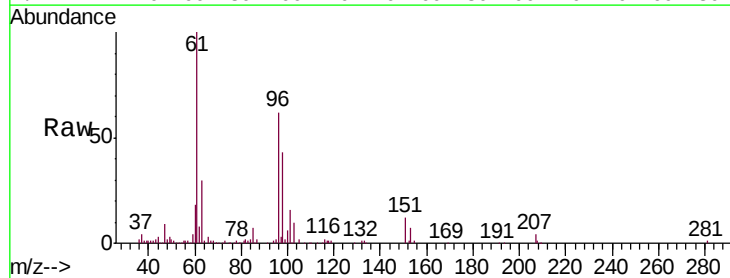
Tgt Ion: 59 Resp: 25889
Ion Ratio Lower Upper
59 100
57 12.1 9.3 13.9

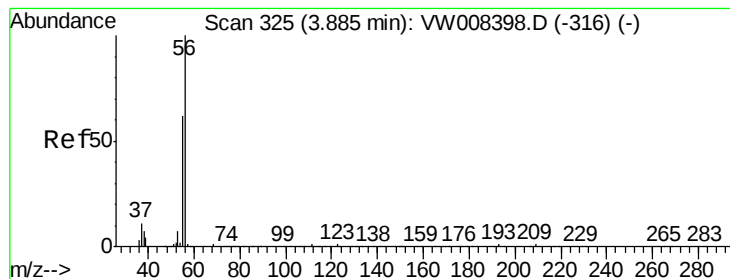


#12

1,1-Dichloroethene
Concen: 18.070 ug/l
RT: 4.03 min Scan# 348
Delta R.T. -0.01 min
Lab File: VW008457.D
Acq: 30 Jan 2019 11:25

Tgt Ion: 96 Resp: 69369
Ion Ratio Lower Upper
96 100
61 160.9 129.5 194.3
98 69.3 48.6 73.0





#13

Acrolein

Concen: 93.396 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW008457.D

Acq: 30 Jan 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

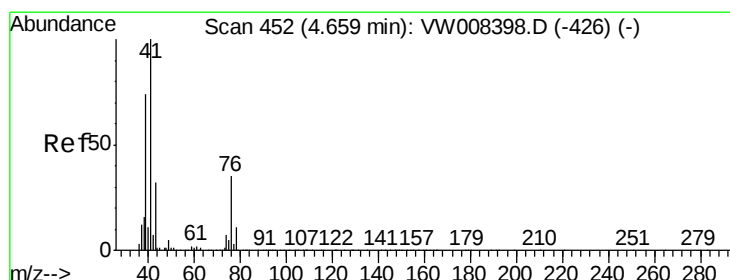
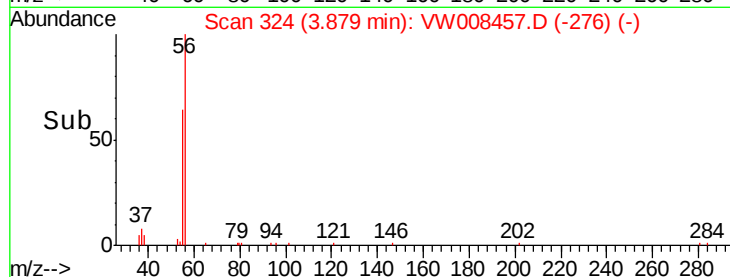
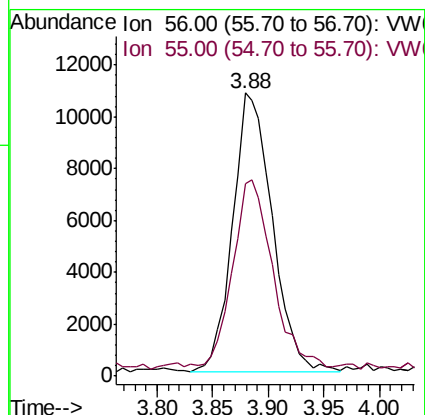
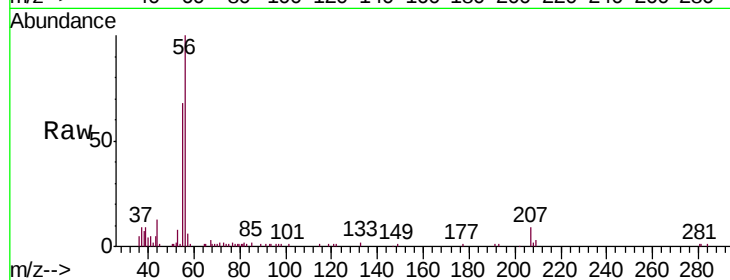
VW0130SBS01

Tgt Ion: 56 Resp: 26554

Ion Ratio Lower Upper

56 100

55 69.4 56.7 85.1



#14

Allyl chloride

Concen: 16.540 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW008457.D

Acq: 30 Jan 2019 11:25

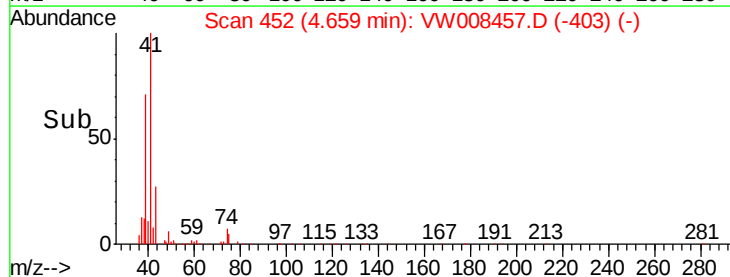
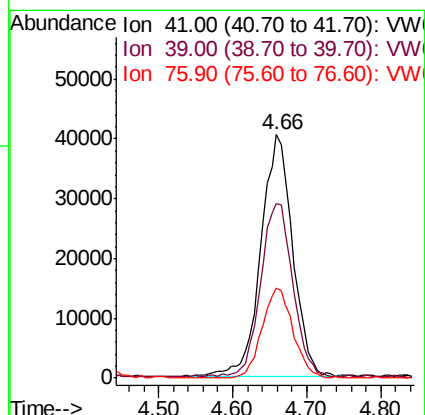
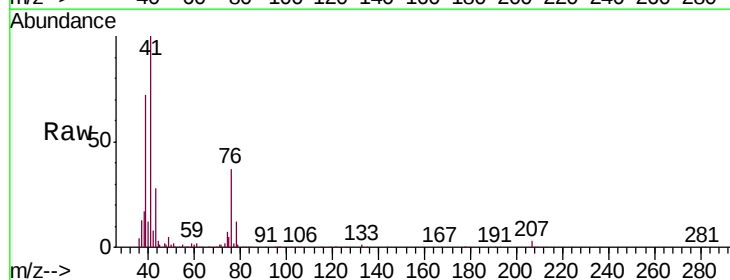
Tgt Ion: 41 Resp: 120566

Ion Ratio Lower Upper

41 100

39 72.4 57.7 86.5

76 36.1 26.9 40.3





#15

Acrylonitrile

Concen: 77.394 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW008457.D

Acq: 30 Jan 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

VW0130SBS01

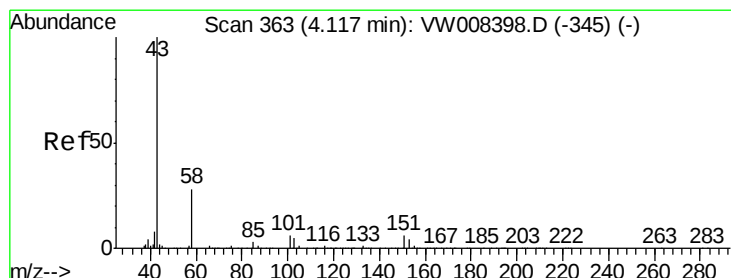
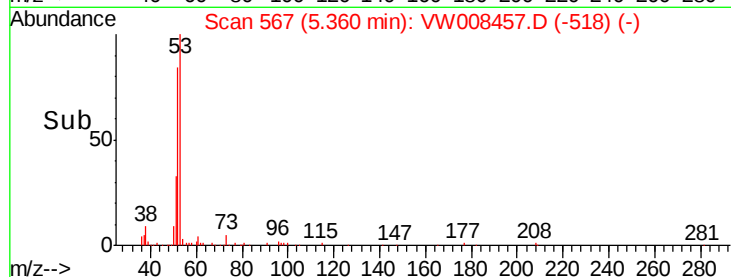
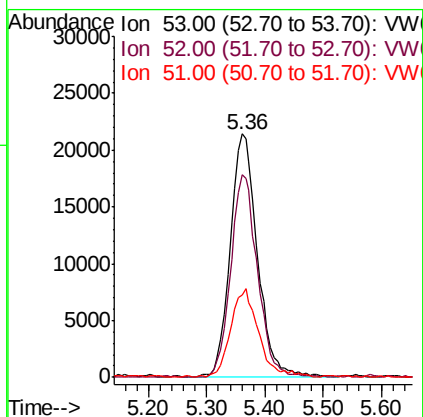
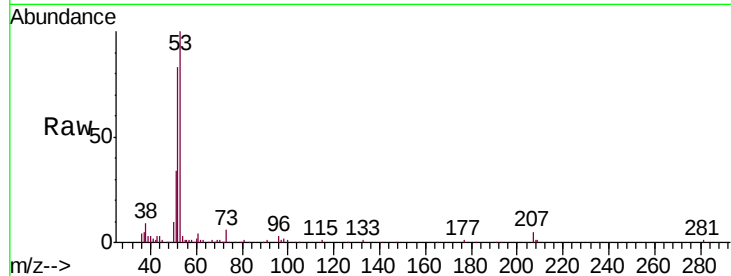
Tgt Ion: 53 Resp: 69897

Ion Ratio Lower Upper

53 100

52 81.0 67.0 100.4

51 37.4 29.8 44.8



#16

Acetone

Concen: 77.118 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008457.D

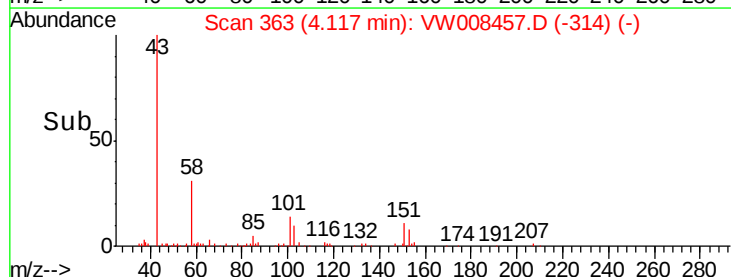
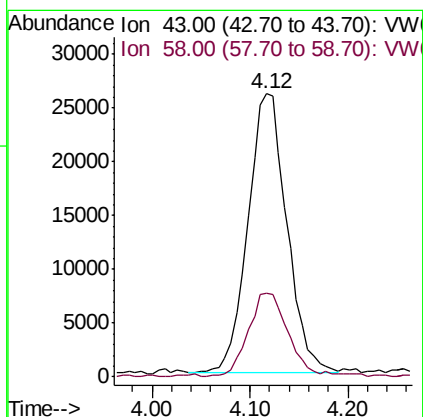
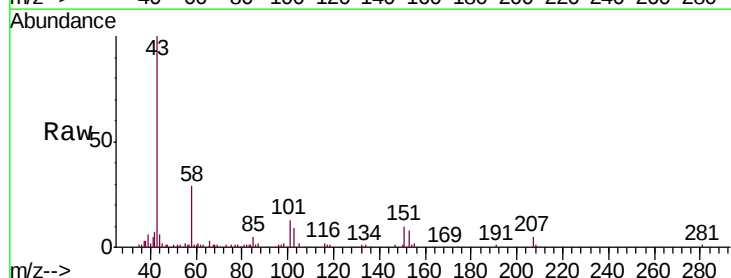
Acq: 30 Jan 2019 11:25

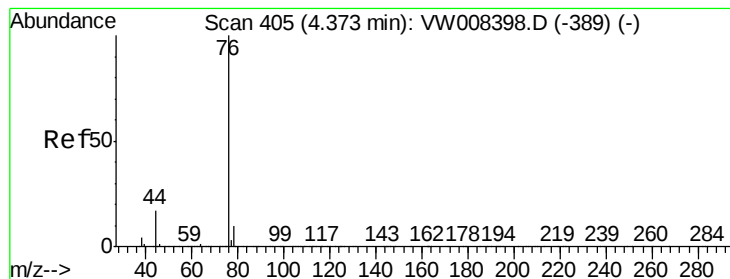
Tgt Ion: 43 Resp: 71353

Ion Ratio Lower Upper

43 100

58 29.4 22.6 34.0





#17

Carbon Disulfide

Concen: 17.620 ug/l

RT: 4.37 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW008457.D

Acq: 30 Jan 2019 11:25

Instrument :

MSVOA_W

ClientSampleId :

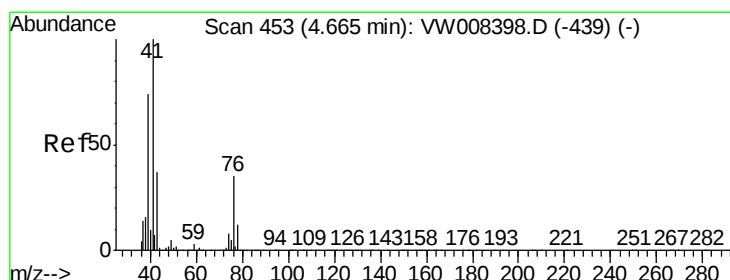
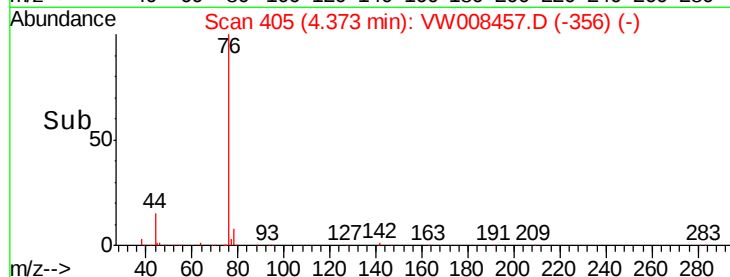
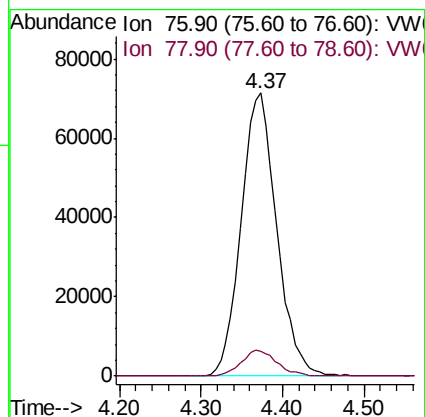
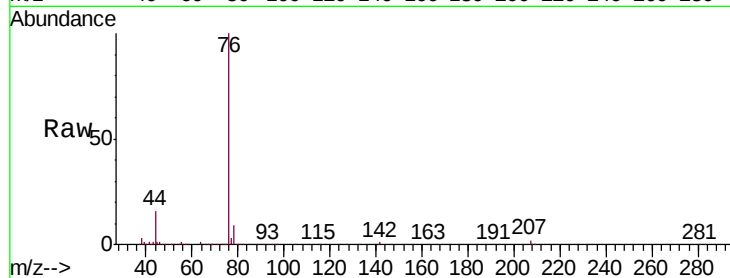
VW0130SBS01

Tgt Ion: 76 Resp: 216028

Ion Ratio Lower Upper

76 100

78 9.0 7.7 11.5



#18

Methyl Acetate

Concen: 14.232 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW008457.D

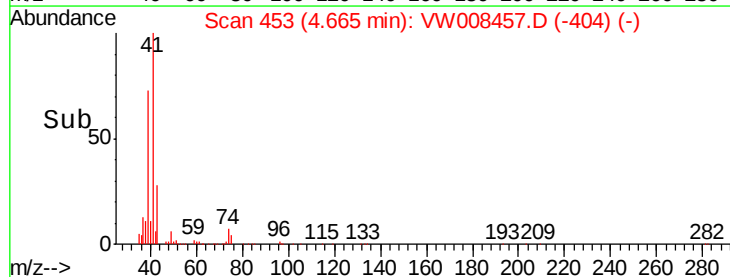
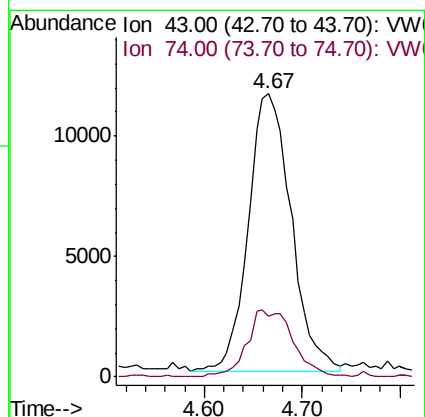
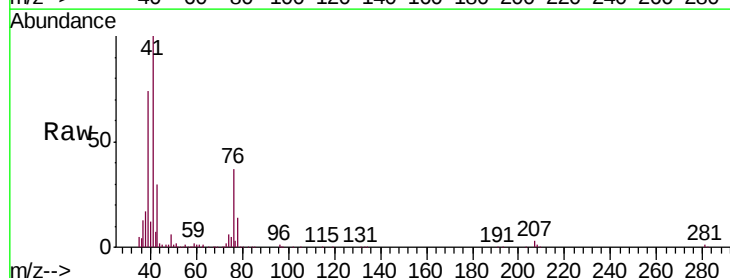
Acq: 30 Jan 2019 11:25

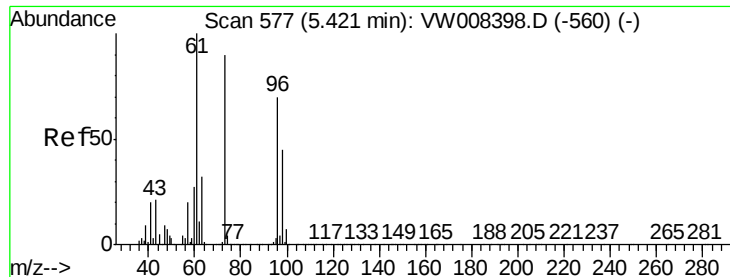
Tgt Ion: 43 Resp: 35122

Ion Ratio Lower Upper

43 100

74 25.8 17.5 26.3



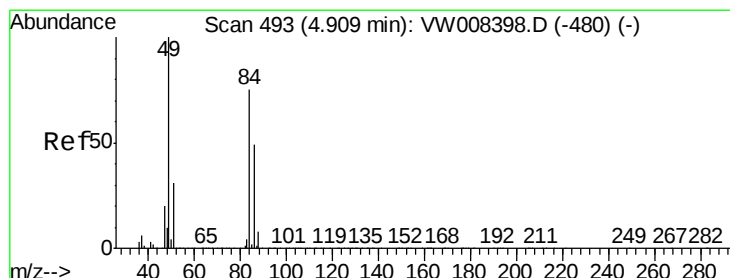
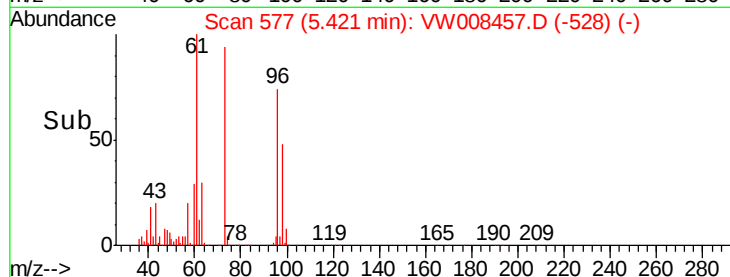
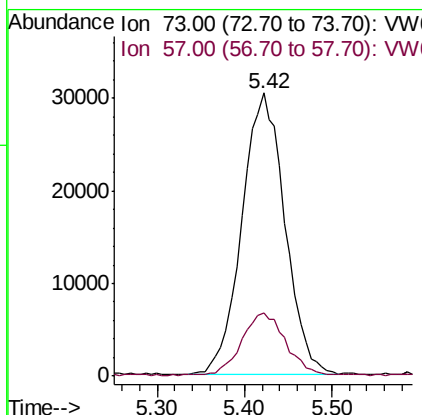
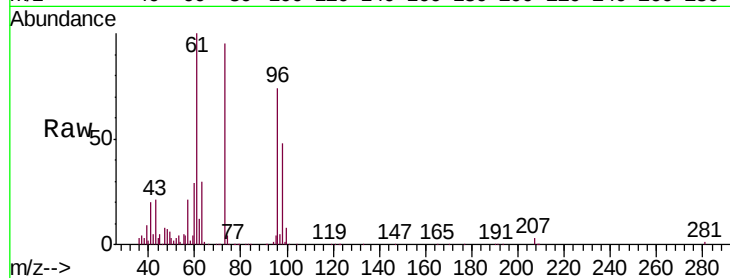


#19

Methyl tert-butyl Ether
 Concen: 16.365 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: VW008457.D
 Acq: 30 Jan 2019 11:25

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0130SBS01

Tgt Ion: 73 Resp: 103943
 Ion Ratio Lower Upper
 73 100
 57 21.7 18.0 27.0



#20

Methylene Chloride
 Concen: 17.941 ug/l
 RT: 4.91 min Scan# 493
 Delta R.T. 0.00 min
 Lab File: VW008457.D
 Acq: 30 Jan 2019 11:25

Tgt Ion: 84 Resp: 76509
 Ion Ratio Lower Upper
 84 100
 49 127.5 106.8 160.2
 51 33.9 32.9 49.3
 86 63.5 52.2 78.2

