

Data File : VW008972.D
Acq On : 04 Mar 2019 21:01
Operator : SY/VA
Sample : VW0304SBSD01
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

Quant Time: Mar 05 06:29:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	268381	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	394513	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	379816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	208093	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	143336	56.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.88%	
35) Dibromofluoromethane	7.88	113	129713	54.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.52%	
50) Toluene-d8	10.32	98	476814	52.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.30%	
62) 4-Bromofluorobenzene	12.62	95	186858	52.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.38%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.00	85	52141	19.397	ug/l	93
3) Chloromethane	2.21	50	70824	21.645	ug/l	100
4) Vinyl Chloride	2.35	62	69686	20.115	ug/l	98
5) Bromomethane	2.76	94	64376	25.018	ug/l	99
6) Chloroethane	2.91	64	51160	20.796	ug/l	98
7) Trichlorofluoromethane	3.26	101	95798	21.864	ug/l	90
8) Diethyl Ether	3.68	74	29703	21.413	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	4.06	101	58394	21.946	ug/l	99
10) Methyl Iodide	4.26	142	57832	17.381	ug/l	99
11) Tert butyl alcohol	5.19	59	21428	95.620	ug/l	99
12) 1,1-Dichloroethene	4.03	96	50665	21.561	ug/l	95
13) Acrolein	3.90	56	16361	83.521	ug/l	99
14) Allyl chloride	4.67	41	86693	21.376	ug/l	96
15) Acrylonitrile	5.37	53	67055	112.635	ug/l	99
16) Acetone	4.13	43	58309	99.937	ug/l	99
17) Carbon Disulfide	4.37	76	154766	19.851	ug/l	95
18) Methyl Acetate	4.67	43	30220	21.837	ug/l	100
19) Methyl tert-butyl Ether	5.42	73	144974	22.794	ug/l	98
20) Methylene Chloride	4.92	84	70398	21.590	ug/l	97
21) trans-1,2-Dichloroethene	5.43	96	60437	22.234	ug/l	86
22) Diisopropyl ether	6.31	45	183213	22.646	ug/l	99
23) Vinyl Acetate	6.26	43	569422	113.916	ug/l	99
24) 1,1-Dichloroethane	6.21	63	106411	22.698	ug/l	99
25) 2-Butanone	7.18	43	86836	106.454	ug/l	96
26) 2,2-Dichloropropane	7.17	77	86784	20.390	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	65022	22.363	ug/l	98
28) Bromochloromethane	7.51	49	42570	21.699	ug/l	100
29) Tetrahydrofuran	7.53	42	55758	107.262	ug/l	98
30) Chloroform	7.67	83	109406	22.748	ug/l	94
31) Cyclohexane	7.95	56	99539	20.976	ug/l	96
32) 1,1,1-Trichloroethane	7.87	97	100500	22.978	ug/l	98
36) 1,1-Dichloropropene	8.08	75	86186	22.442	ug/l	99
37) Ethyl Acetate	7.25	43	41012	22.965	ug/l	98
38) Carbon Tetrachloride	8.07	117	88772	21.919	ug/l	98

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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	97093	20.269	ug/l	96
40) Benzene	8.32	78	230657	21.998	ug/l	100
41) Methacrylonitrile	7.48	41	21903	20.865	ug/l	97
42) 1,2-Dichloroethane	8.40	62	78133	23.523	ug/l	100
43) Isopropyl Acetate	8.43	43	78945	22.149	ug/l	99
44) Trichloroethene	9.09	130	64746	21.920	ug/l	96
45) 1,2-Dichloropropane	9.37	63	59617	23.009	ug/l	97
46) Dibromomethane	9.46	93	34003	23.593	ug/l	93
47) Bromodichloromethane	9.65	83	81636	23.281	ug/l #	98
48) Methyl methacrylate	9.43	41	34262	20.071	ug/l	96
49) 1,4-Dioxane	9.45	88	8744	378.851	ug/l #	68
51) 4-Methyl-2-Pentanone	10.21	43	197477	109.131	ug/l	99
52) Toluene	10.39	92	156467	21.988	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	78309	21.910	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	91983	22.565	ug/l	95
55) 1,1,2-Trichloroethane	10.79	97	45824	23.445	ug/l	97
56) Ethyl methacrylate	10.65	69	52946	20.850	ug/l	99
57) 1,3-Dichloropropane	10.93	76	79971	23.173	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	143287	112.191	ug/l	99
59) 2-Hexanone	10.97	43	130909	101.629	ug/l	100
60) Dibromochloromethane	11.13	129	55110	23.116	ug/l	100
61) 1,2-Dibromoethane	11.23	107	43784	22.631	ug/l	98
64) Tetrachloroethene	10.86	164	59220	21.782	ug/l	96
65) Chlorobenzene	11.66	112	172092	21.548	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	60491	22.401	ug/l	99
67) Ethyl Benzene	11.73	91	303158	21.234	ug/l	99
68) m/p-Xylenes	11.84	106	246731	43.253	ug/l	98
69) o-Xylene	12.17	106	114488	21.383	ug/l	100
70) Styrene	12.18	104	183278	21.277	ug/l	99
71) Bromoform	12.35	173	31576	21.753	ug/l #	99
73) Isopropylbenzene	12.47	105	308891	21.653	ug/l	99
74) N-amyl acetate	12.27	43	73679	20.504	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	52198	22.393	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	69277	40.322	ug/l #	100
77) Bromobenzene	12.75	156	74495	22.098	ug/l	98
78) n-propylbenzene	12.80	91	380381	21.798	ug/l	100
79) 2-Chlorotoluene	12.89	91	215801	21.782	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	264888	21.367	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	14871	21.042	ug/l	98
82) 4-Chlorotoluene	12.99	91	226690	21.713	ug/l	99
83) tert-Butylbenzene	13.21	119	226690	21.148	ug/l	100
84) 1,2,4-Trimethylbenzene	13.26	105	271069	21.123	ug/l	100
85) sec-Butylbenzene	13.38	105	327502	21.248	ug/l	99
86) p-Isopropyltoluene	13.50	119	291050	20.598	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	154502	22.090	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	151082	21.917	ug/l	99
89) n-Butylbenzene	13.83	91	273846	20.687	ug/l	99
90) Hexachloroethane	14.10	117	50729	21.931	ug/l	100
91) 1,2-Dichlorobenzene	13.87	146	135359	21.720	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	8886	21.074	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW030519\
Quantitation Report (Not Reviewed)

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ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	92082	20.507	ug/l	99
94) Hexachlorobutadiene	15.24	225	59111	22.349	ug/l	99
95) Naphthalene	15.37	128	148244	19.390	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	80093	20.630	ug/l	97

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

Data File : VW008972.D

Acq On : 04 Mar 2019 21:01

Operator : SY/VA

Sample : VW0304SBSD01

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

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ALS Vial      : 10      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

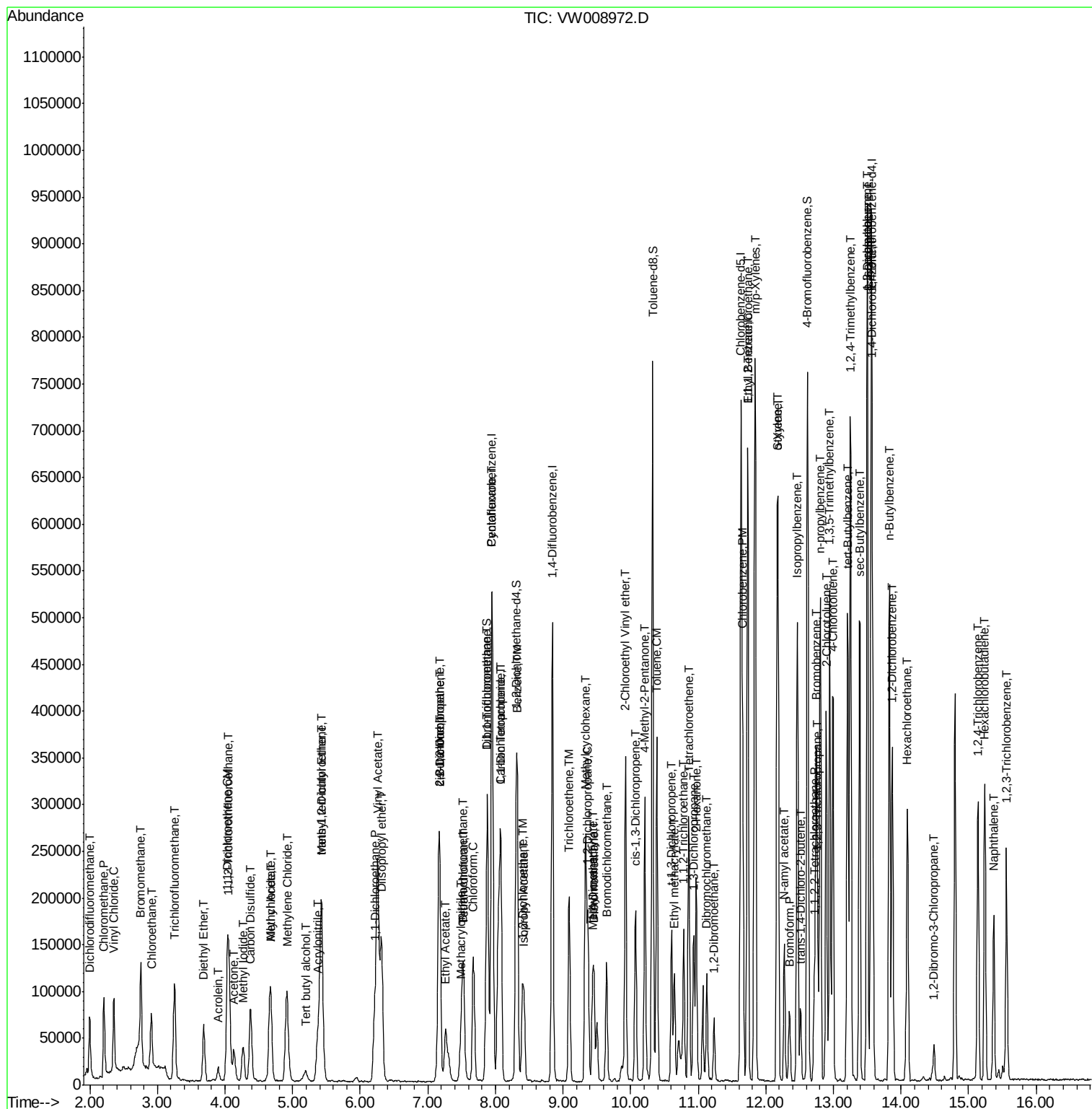
Quant Time: Mar 05 06:29:35 2019

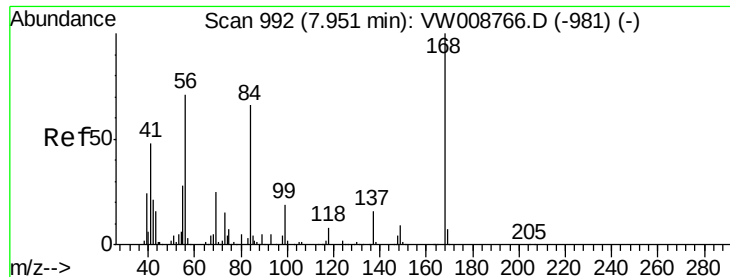
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Quant Title : SW846 8260

QLast Update : Fri Feb 22 00:38:32 2019

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

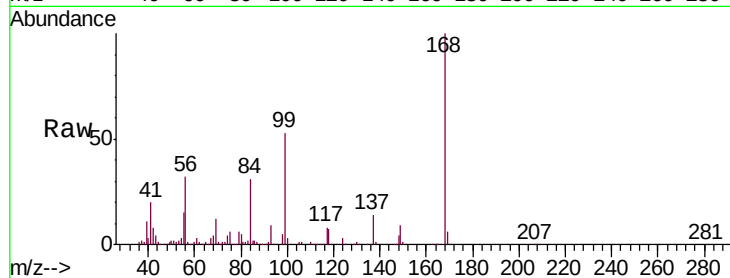
VW0305SBSD01

Tgt Ion:168 Resp: 268381

Ion Ratio Lower Upper

168 100

99 52.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

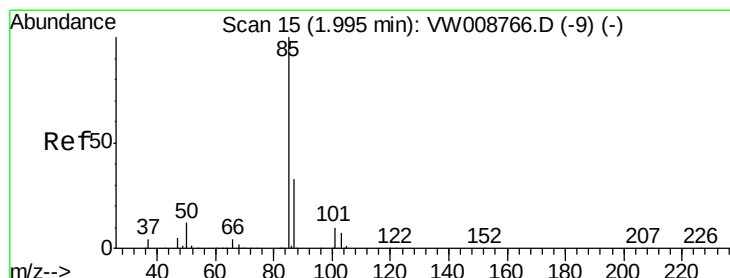
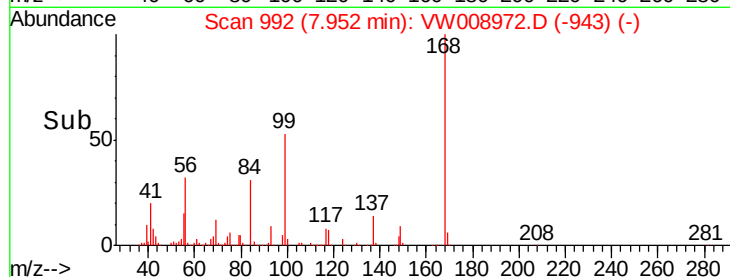
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 19.397 ug/l

RT: 2.00 min Scan# 15

Delta R.T. 0.00 min

Lab File: VW008972.D

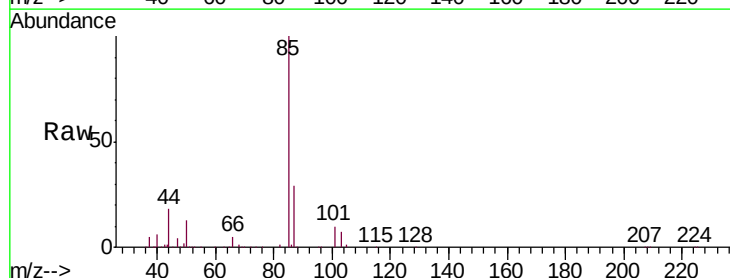
Acq: 04 Mar 2019 21:01

Tgt Ion: 85 Resp: 52141

Ion Ratio Lower Upper

85 100

87 28.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

40000

30000

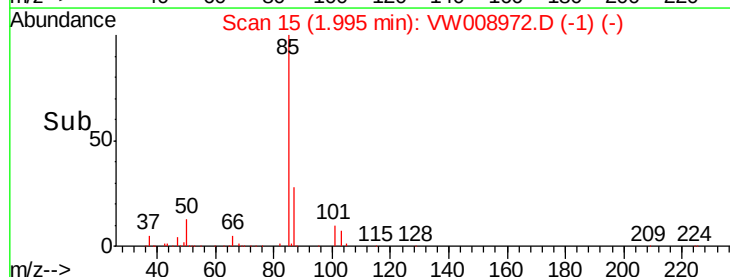
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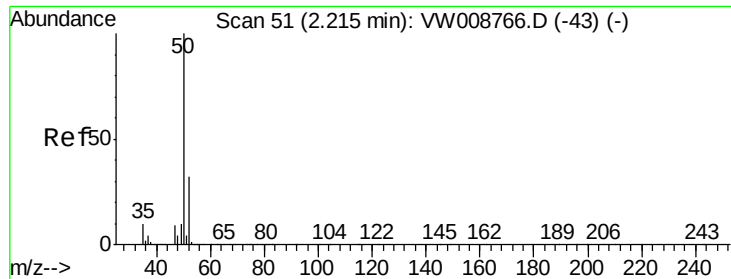
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0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 21.645 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

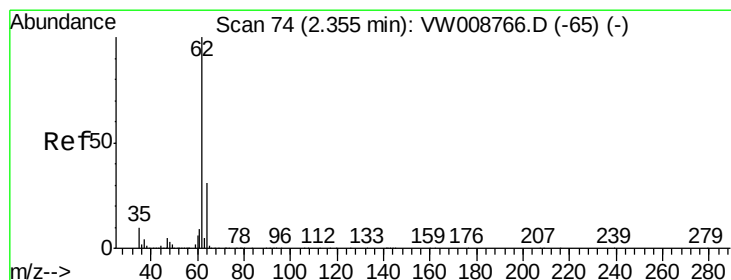
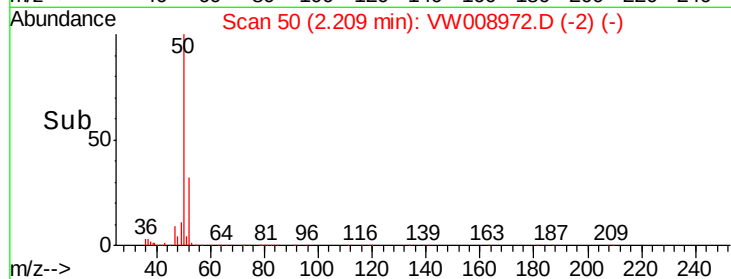
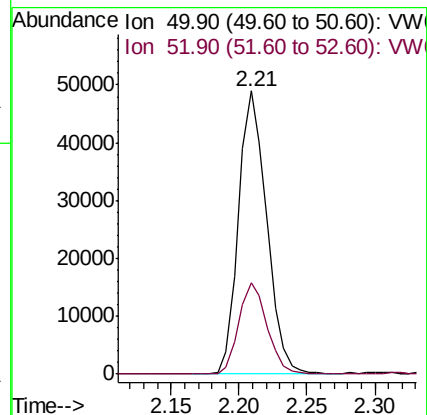
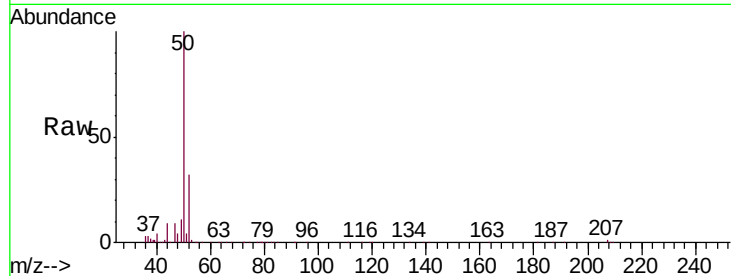
VW0305SBSD01

Tgt Ion: 50 Resp: 70824

Ion Ratio Lower Upper

50 100

52 32.2 25.9 38.9



#4

Vinyl Chloride

Concen: 20.115 ug/l

RT: 2.35 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW008972.D

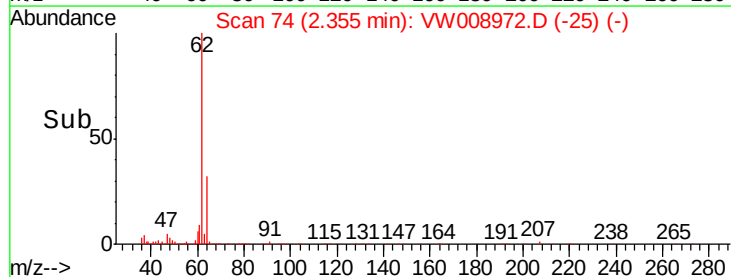
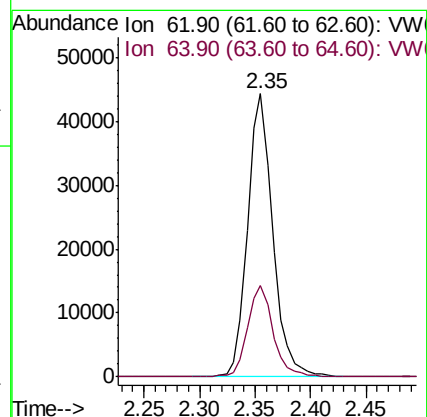
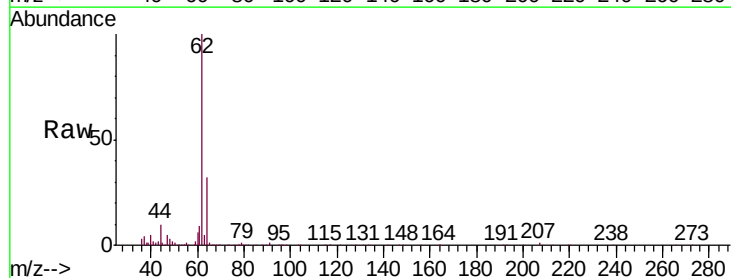
Acq: 04 Mar 2019 21:01

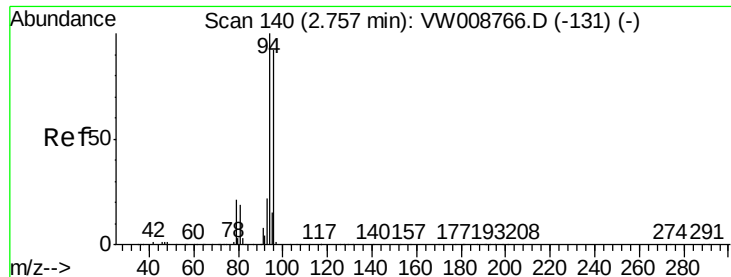
Tgt Ion: 62 Resp: 69686

Ion Ratio Lower Upper

62 100

64 32.3 24.9 37.3





#5

Bromomethane

Concen: 25.018 ug/l

RT: 2.76 min Scan# 140

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

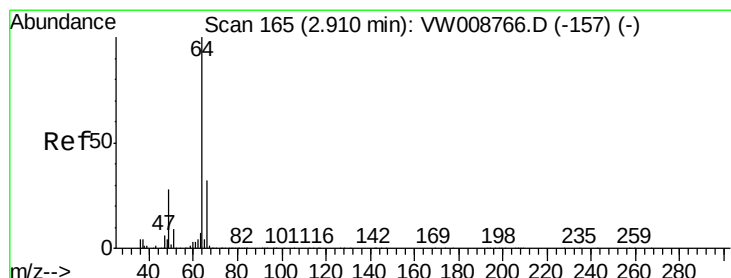
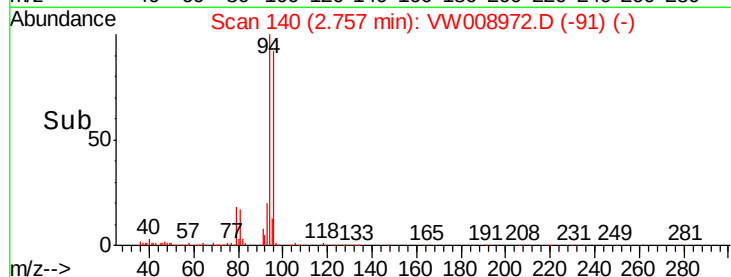
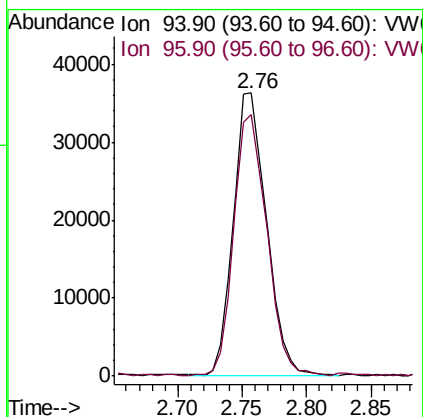
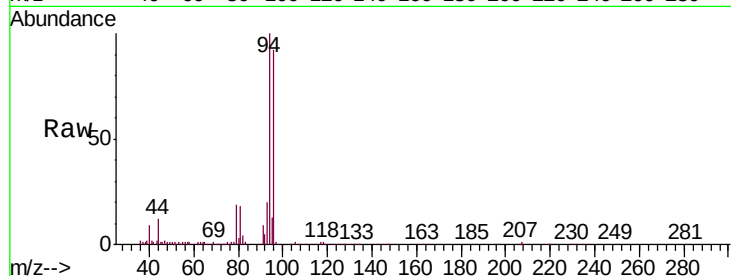
VW0305SBSD01

Tgt Ion: 94 Resp: 64376

Ion Ratio Lower Upper

94 100

96 92.4 73.4 110.2



#6

Chloroethane

Concen: 20.796 ug/l

RT: 2.91 min Scan# 165

Delta R.T. 0.00 min

Lab File: VW008972.D

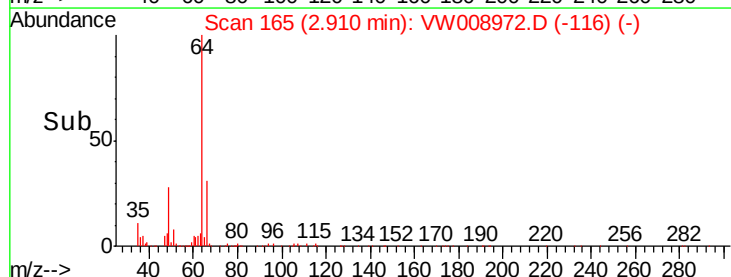
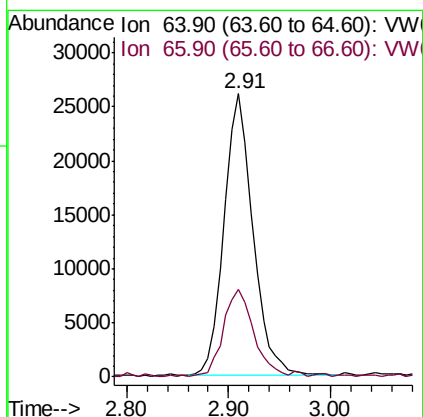
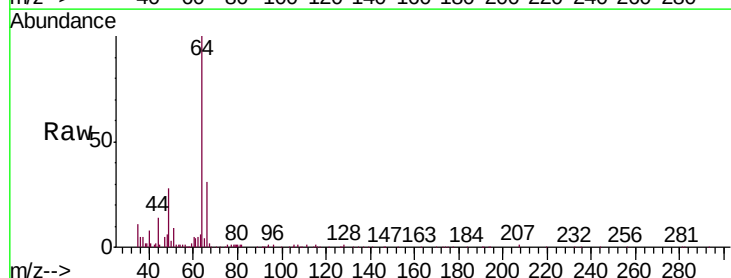
Acq: 04 Mar 2019 21:01

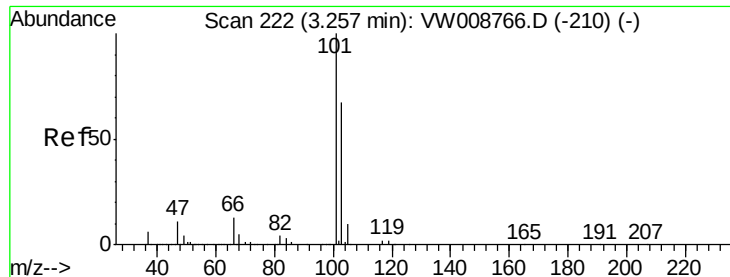
Tgt Ion: 64 Resp: 51160

Ion Ratio Lower Upper

64 100

66 30.6 25.5 38.3



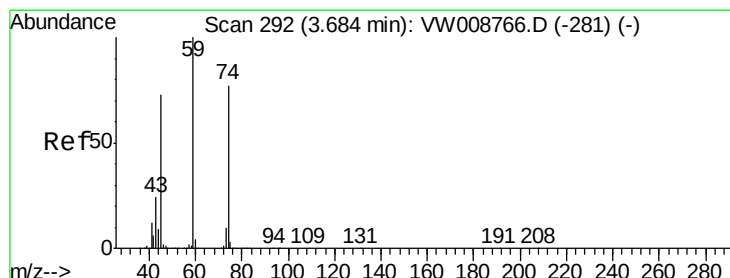
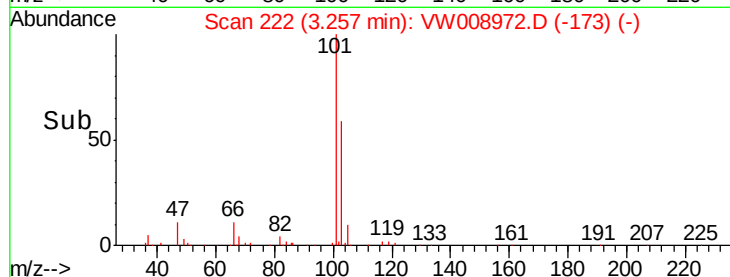
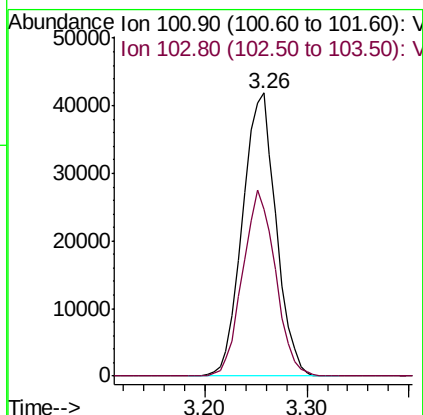
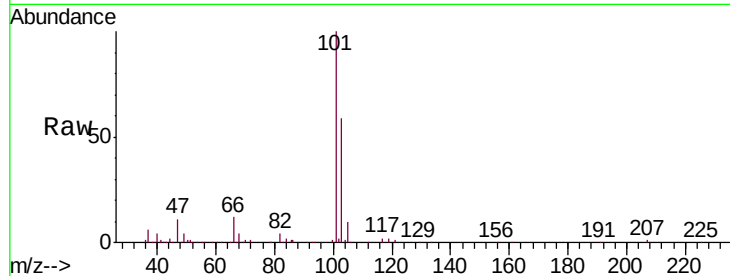


#7

Trichlorofluoromethane
 Concen: 21.864 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0305SBSD01

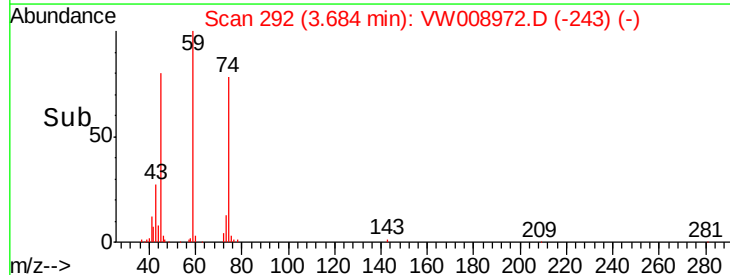
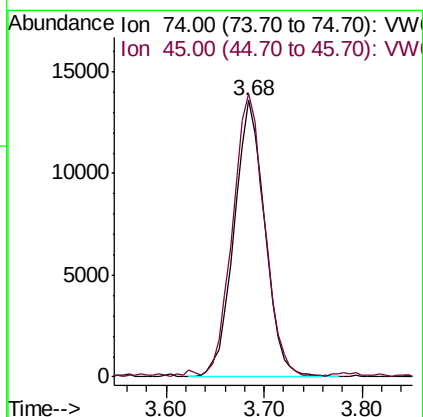
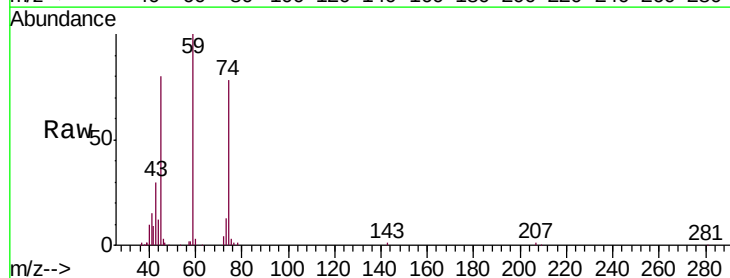
Tgt Ion: 101 Resp: 95798
 Ion Ratio Lower Upper
 101 100
 103 59.2 53.9 80.9

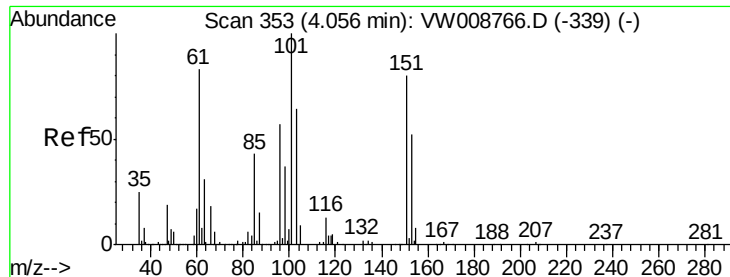


#8

Diethyl Ether
 Concen: 21.413 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.00 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Tgt Ion: 74 Resp: 29703
 Ion Ratio Lower Upper
 74 100
 45 106.4 50.2 150.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.946 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

VW0305SBS01

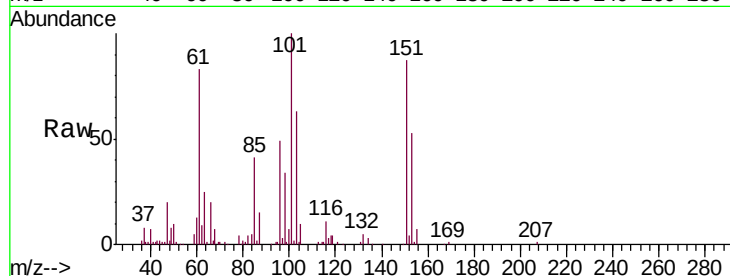
Tgt Ion:101 Resp: 58394

Ion Ratio Lower Upper

101 100

85 45.8 36.0 54.0

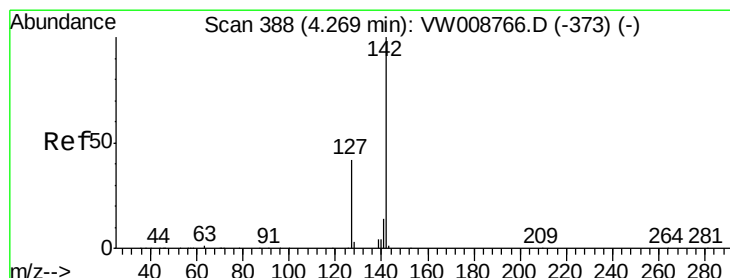
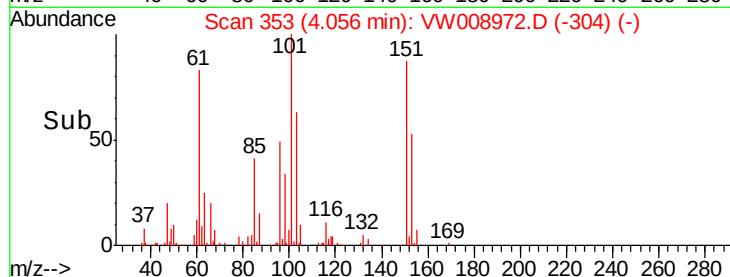
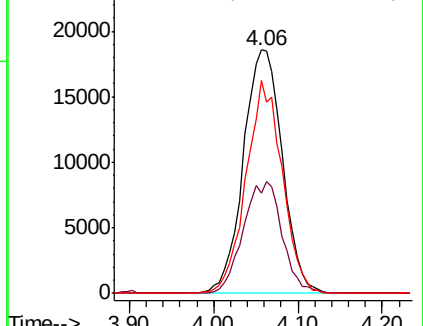
151 80.9 65.5 98.3



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: 17.381 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.01 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

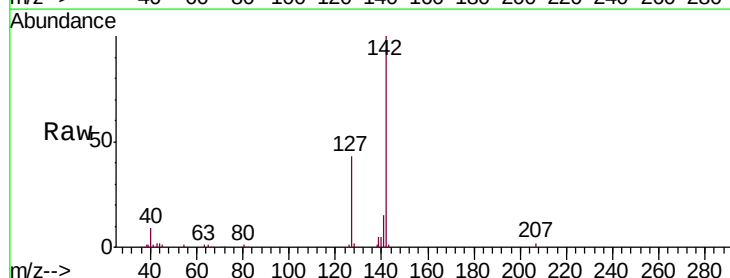
Tgt Ion:142 Resp: 57832

Ion Ratio Lower Upper

142 100

127 45.0 35.3 52.9

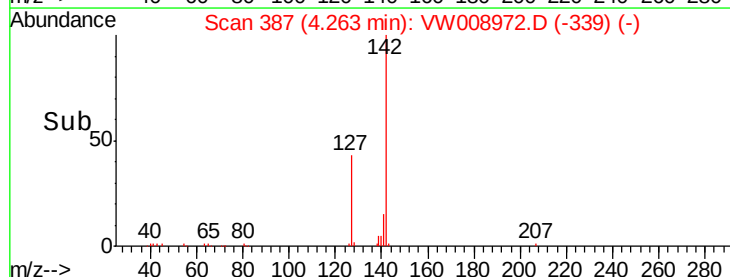
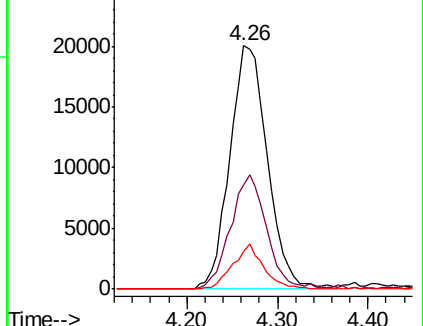
141 15.1 11.7 17.5

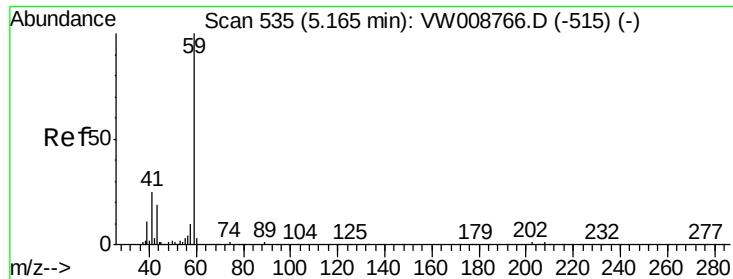


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

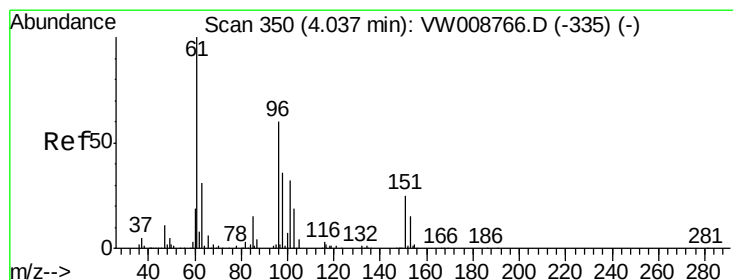
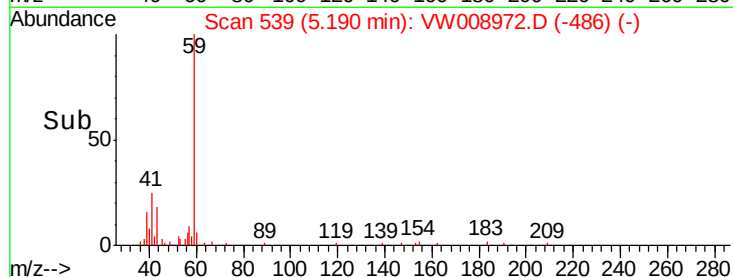
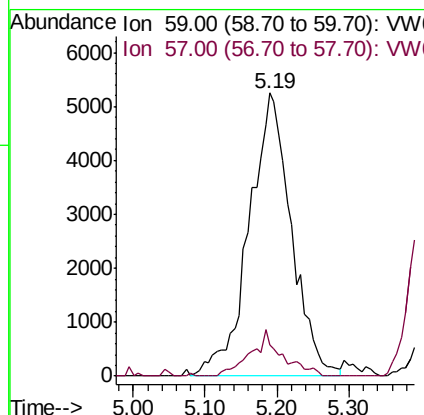
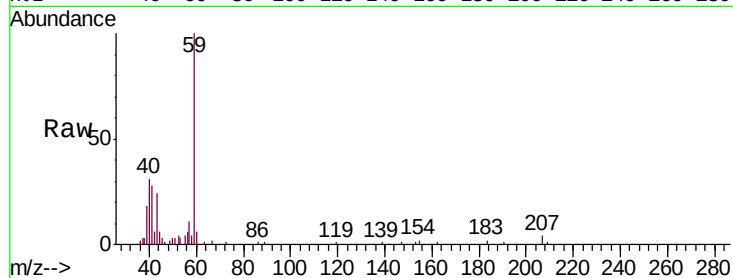




#11
Tert butyl alcohol
Concen: 95.620 ug/l
RT: 5.19 min Scan# 539
Delta R.T. 0.02 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

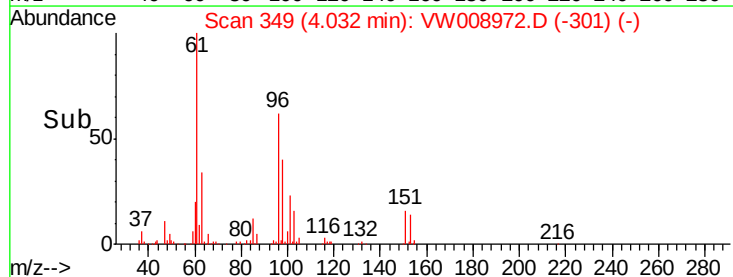
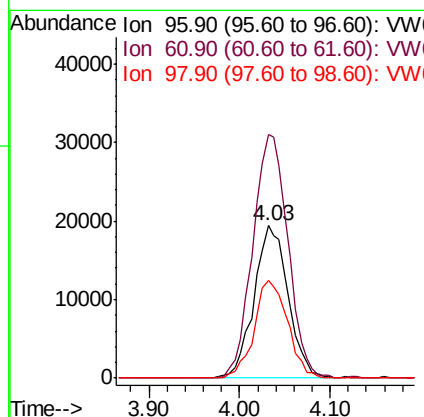
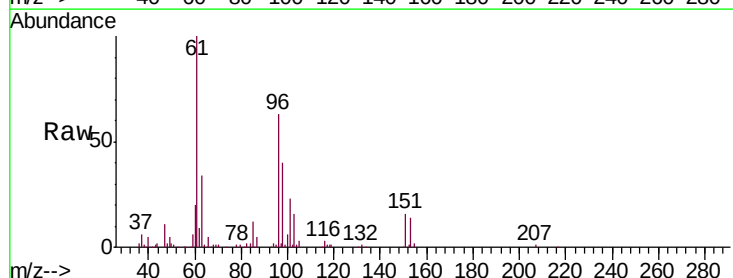
Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

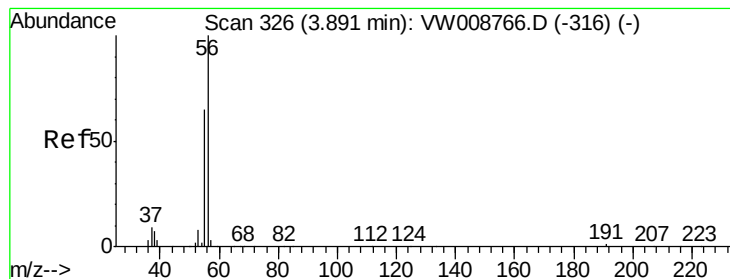
Tgt Ion: 59 Resp: 21428
Ion Ratio Lower Upper
59 100
57 12.0 9.3 13.9



#12
1,1-Dichloroethene
Concen: 21.561 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Tgt Ion: 96 Resp: 50665
Ion Ratio Lower Upper
96 100
61 159.7 132.5 198.7
98 64.0 48.2 72.4





#13

Acrolein

Concen: 83.521 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

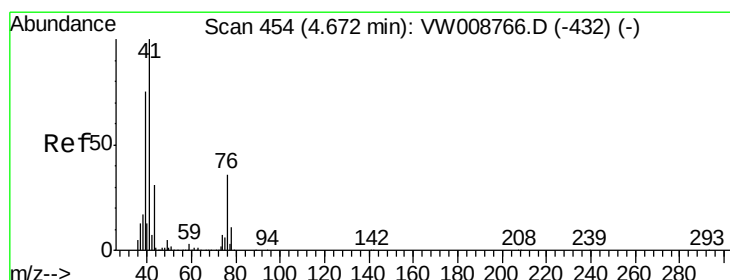
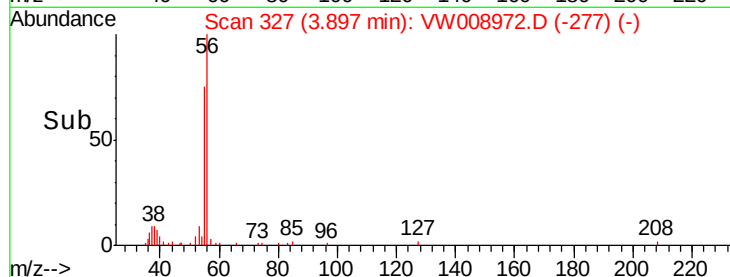
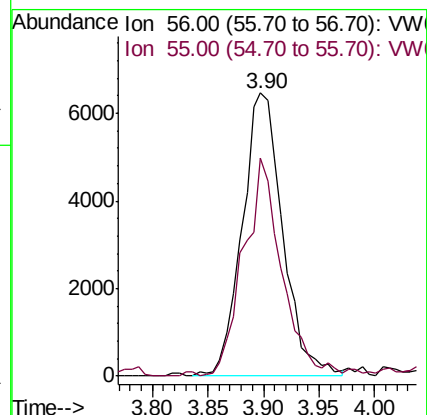
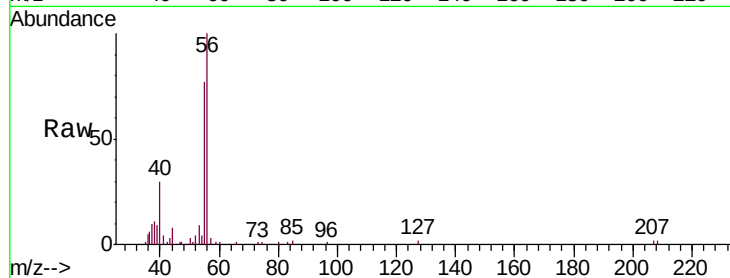
VW0305SBSD01

Tgt Ion: 56 Resp: 16361

Ion Ratio Lower Upper

56 100

55 72.2 56.9 85.3



#14

Allyl chloride

Concen: 21.376 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

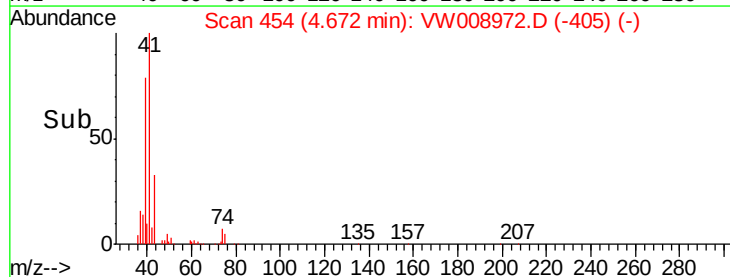
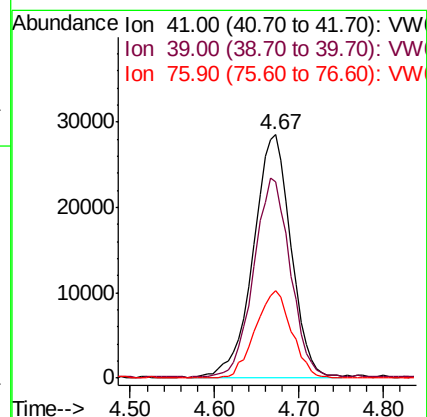
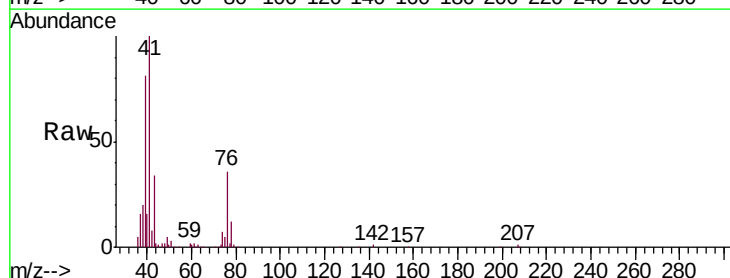
Tgt Ion: 41 Resp: 86693

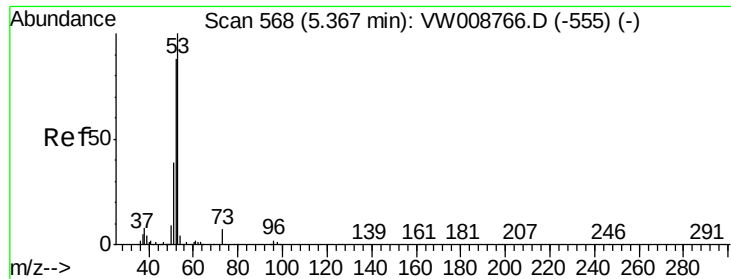
Ion Ratio Lower Upper

41 100

39 79.7 60.6 91.0

76 34.9 28.6 42.8





#15

Acrylonitrile

Concen: 112.635 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

VW0305SBSD01

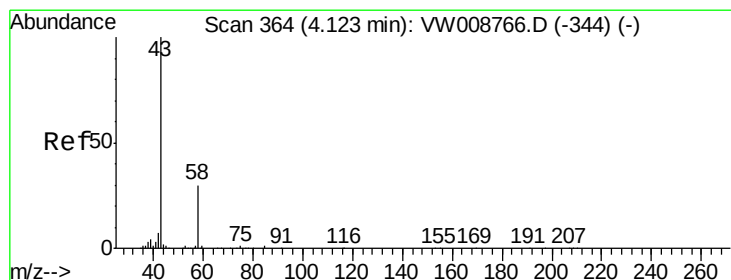
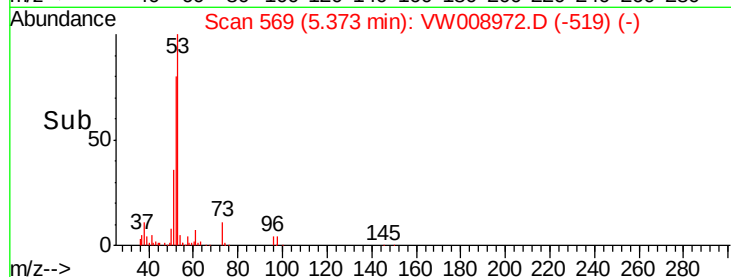
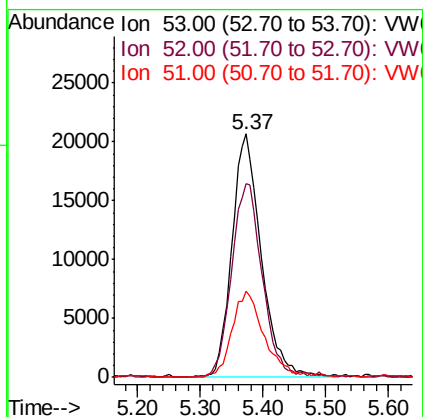
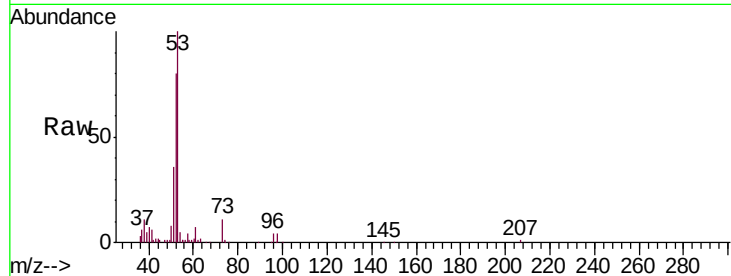
Tgt Ion: 53 Resp: 67055

Ion Ratio Lower Upper

53 100

52 82.8 67.2 100.8

51 38.6 31.1 46.7



#16

Acetone

Concen: 99.937 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008972.D

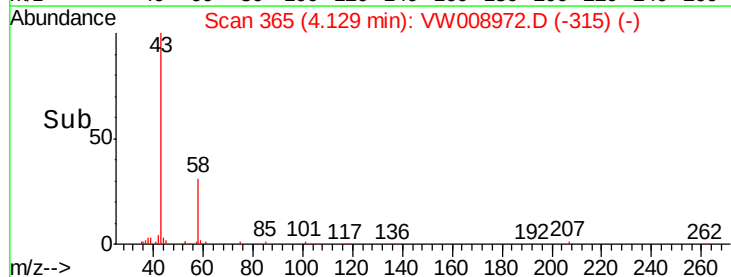
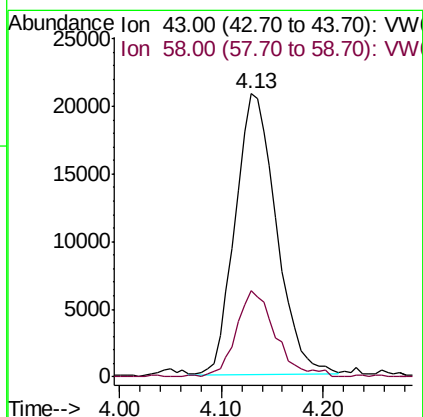
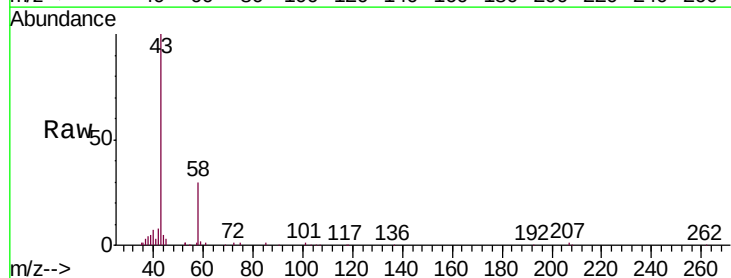
Acq: 04 Mar 2019 21:01

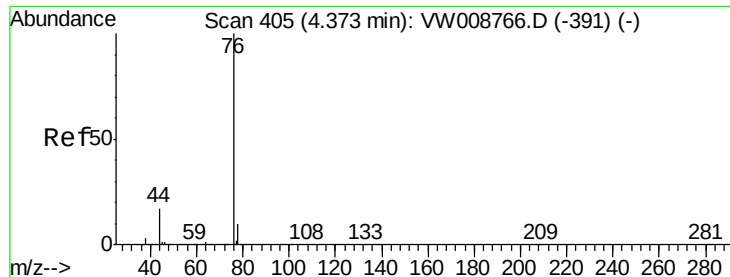
Tgt Ion: 43 Resp: 58309

Ion Ratio Lower Upper

43 100

58 30.3 23.8 35.6

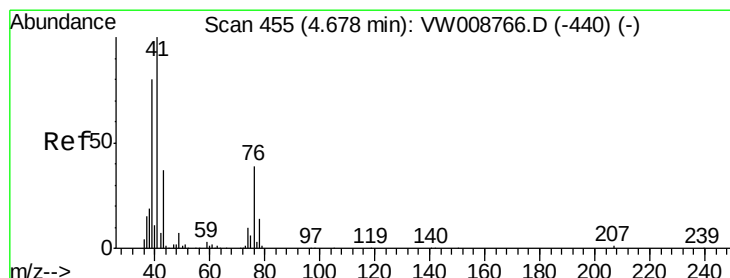
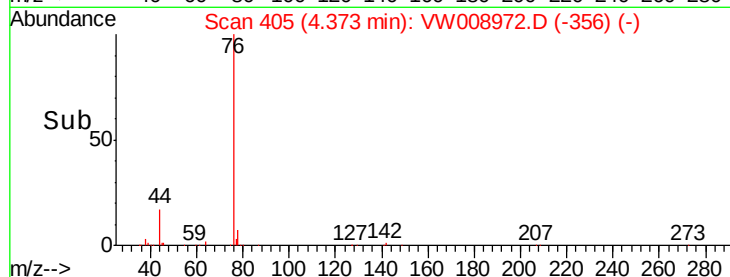
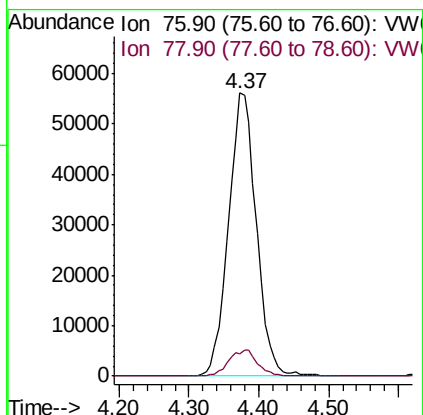
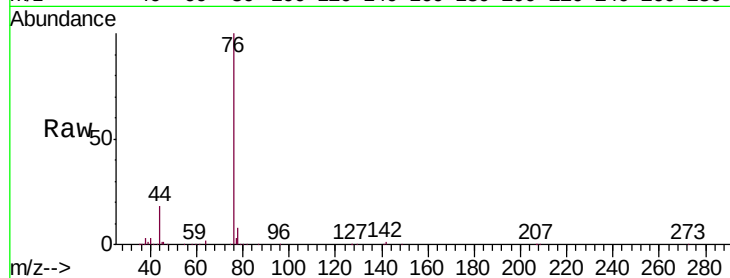




#17
Carbon Disulfide
Concen: 19.851 ug/l
RT: 4.37 min Scan# 405
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

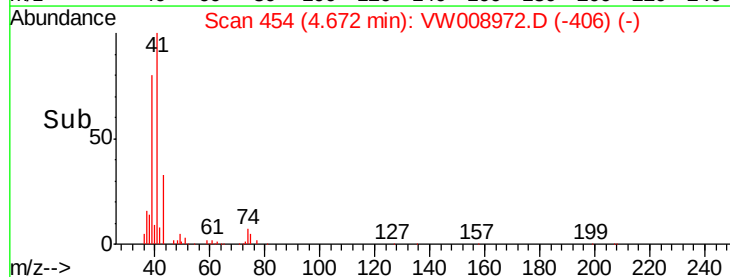
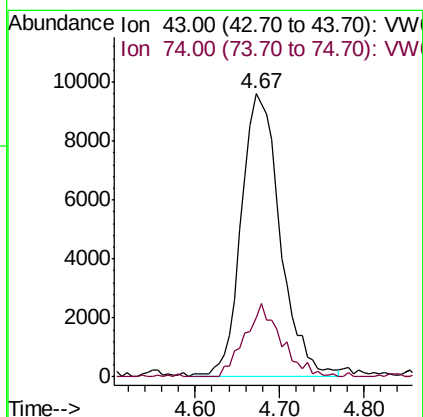
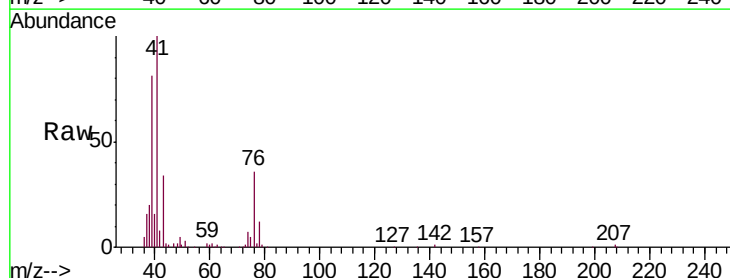
Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

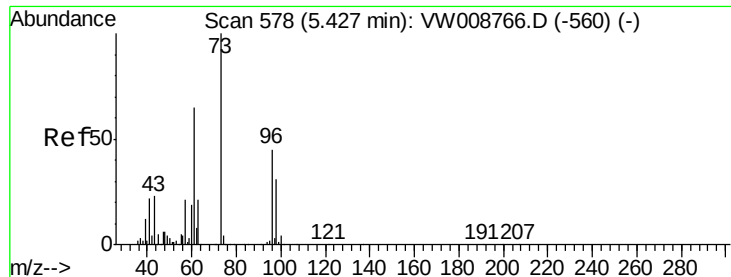
Tgt Ion: 76 Resp: 154766
Ion Ratio Lower Upper
76 100
78 8.1 7.8 11.8



#18
Methyl Acetate
Concen: 21.837 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.01 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Tgt Ion: 43 Resp: 30220
Ion Ratio Lower Upper
43 100
74 24.3 19.4 29.2



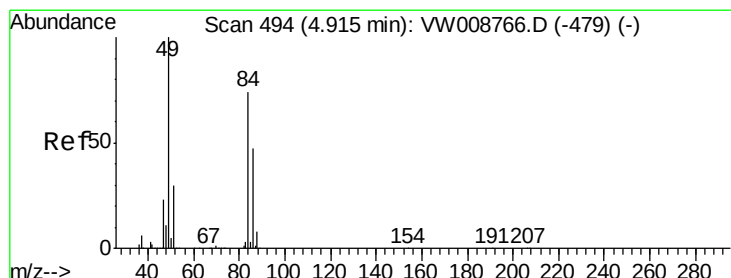
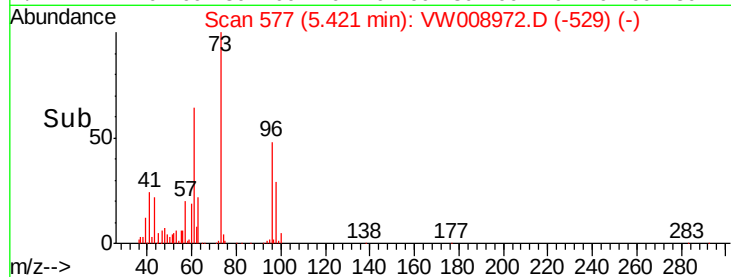
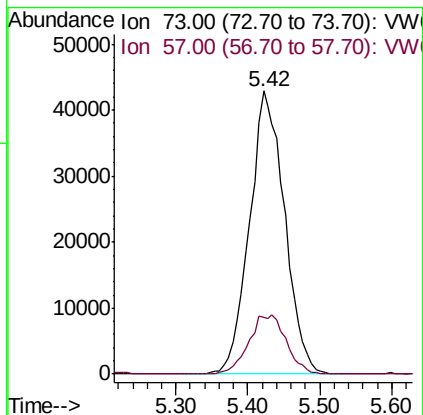
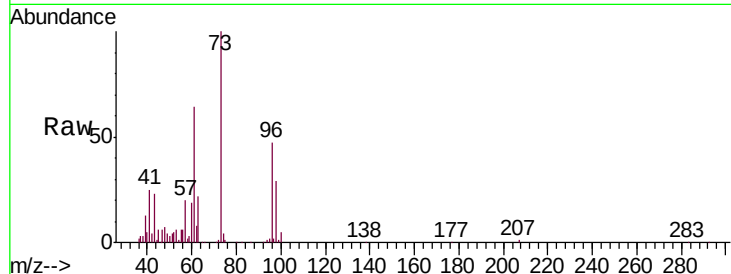


#19

Methyl tert-butyl Ether
 Concen: 22.794 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. -0.01 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0305SBSD01

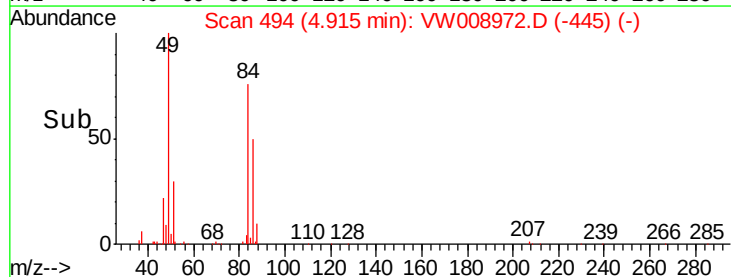
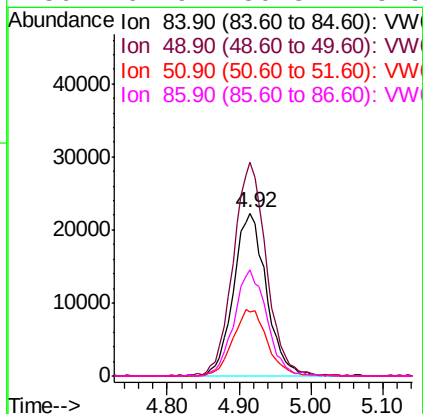
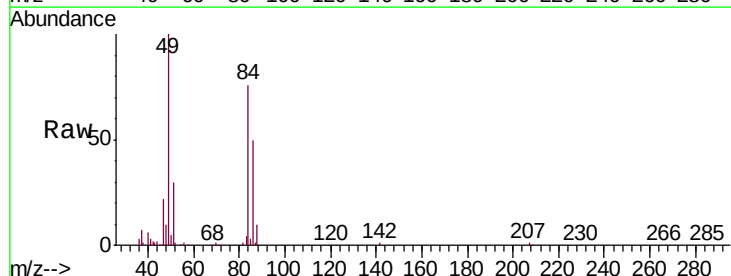
Tgt Ion: 73 Resp: 144974
 Ion Ratio Lower Upper
 73 100
 57 20.0 16.8 25.2

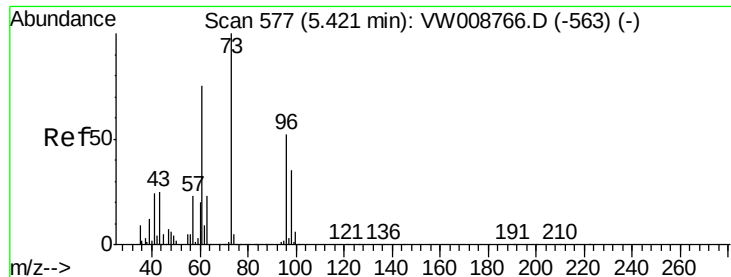


#20

Methylene Chloride
 Concen: 21.590 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Tgt Ion: 84 Resp: 70398
 Ion Ratio Lower Upper
 84 100
 49 130.9 108.2 162.2
 51 39.2 32.7 49.1
 86 64.9 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 22.234 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

VW0305SBSD01

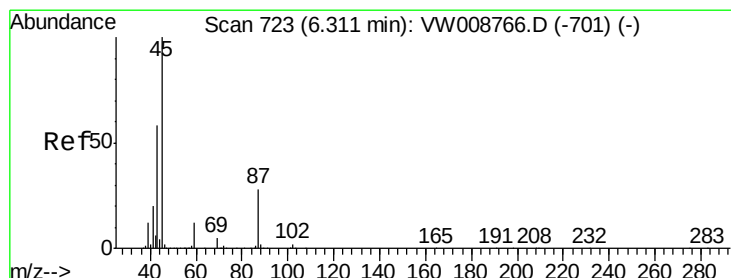
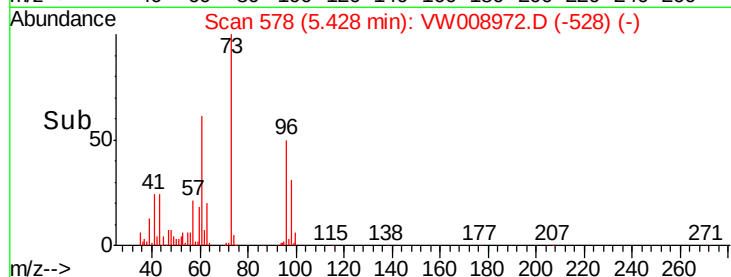
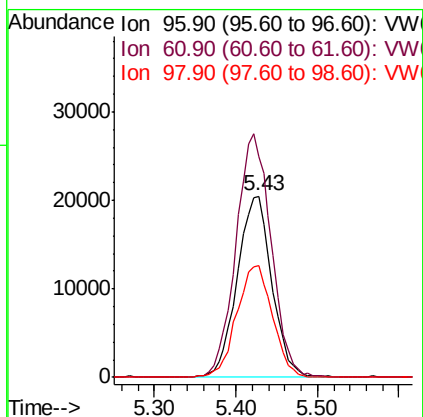
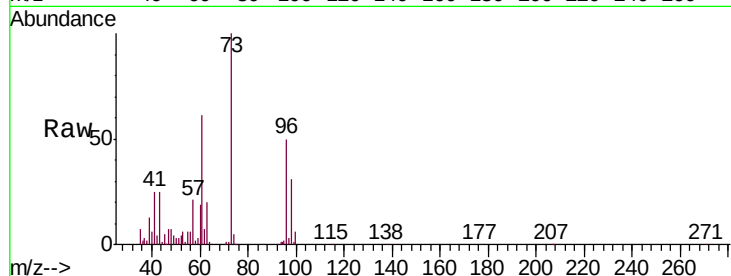
Tgt Ion: 96 Resp: 60437

Ion Ratio Lower Upper

96 100

61 121.5 114.6 171.8

98 61.7 54.0 81.0



#22

Diisopropyl ether

Concen: 22.646 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Tgt Ion: 45 Resp: 183213

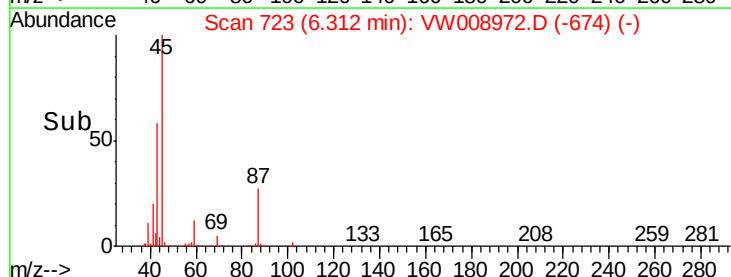
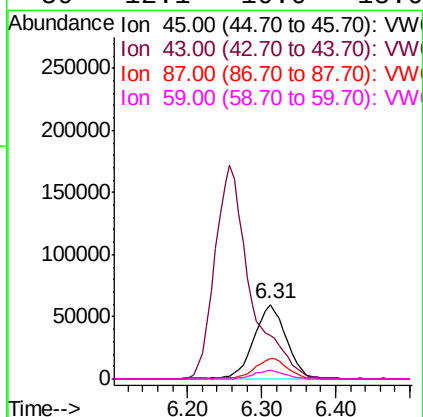
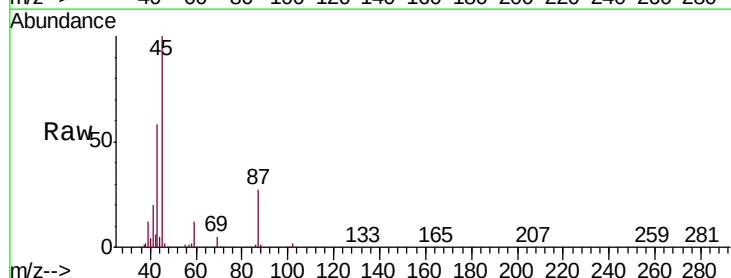
Ion Ratio Lower Upper

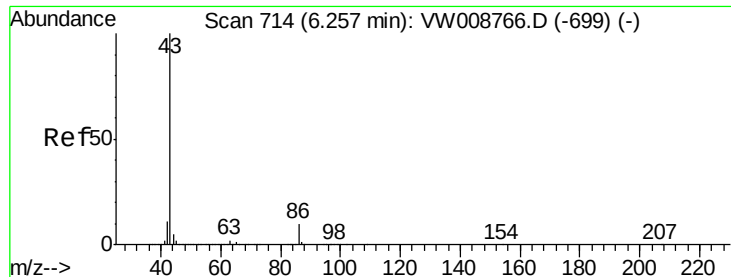
45 100

43 57.4 46.1 69.1

87 27.0 22.2 33.4

59 12.1 10.0 15.0





#23

Vinyl Acetate

Concen: 113.916 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

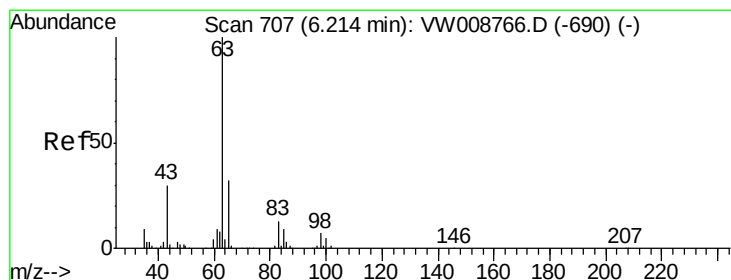
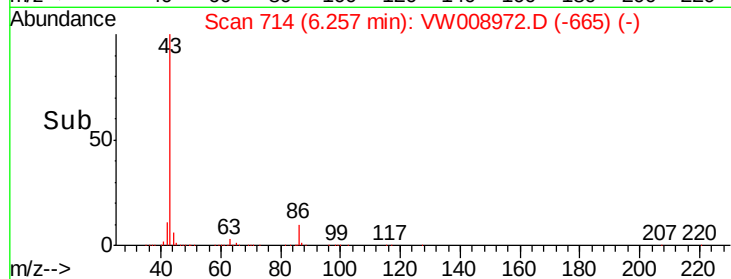
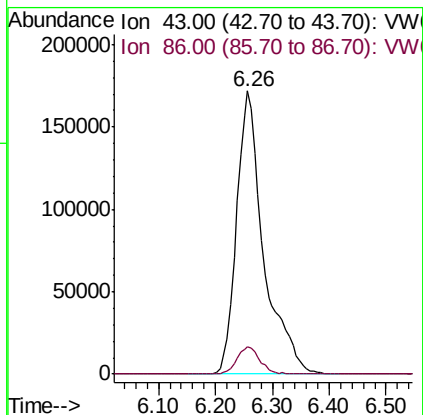
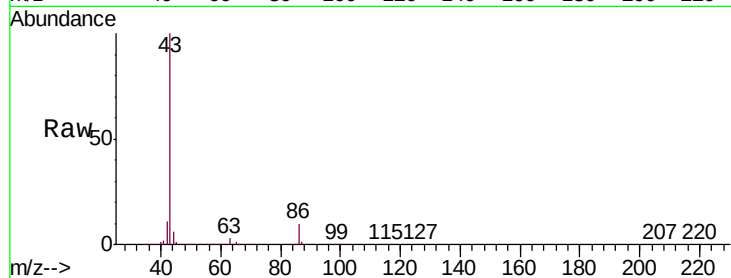
VW0305SBSD01

Tgt Ion: 43 Resp: 569422

Ion Ratio Lower Upper

43 100

86 9.9 8.1 12.1



#24

1,1-Dichloroethane

Concen: 22.698 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

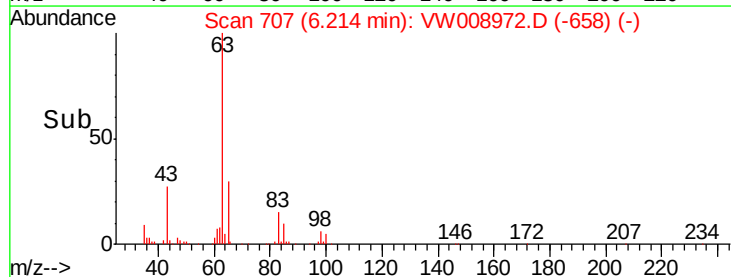
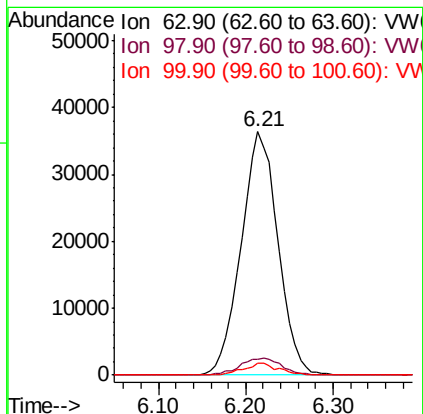
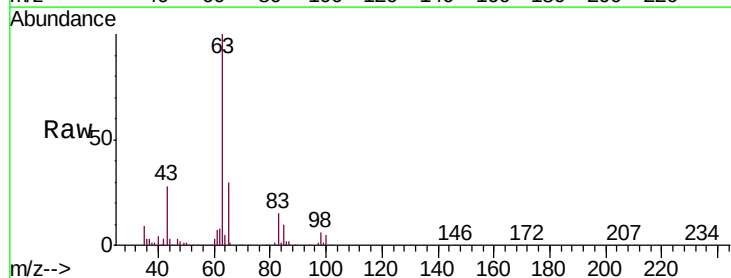
Tgt Ion: 63 Resp: 106411

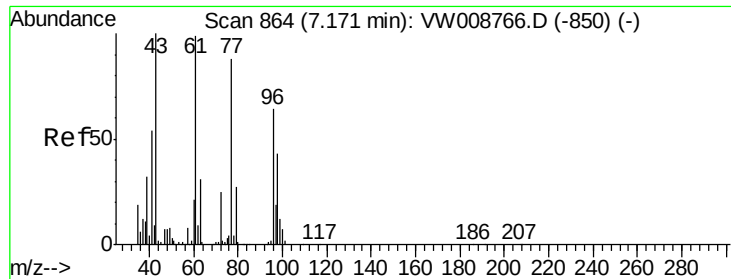
Ion Ratio Lower Upper

63 100

98 6.4 3.5 10.6

100 4.8 2.4 7.2





#25

2-Butanone

Concen: 106.454 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

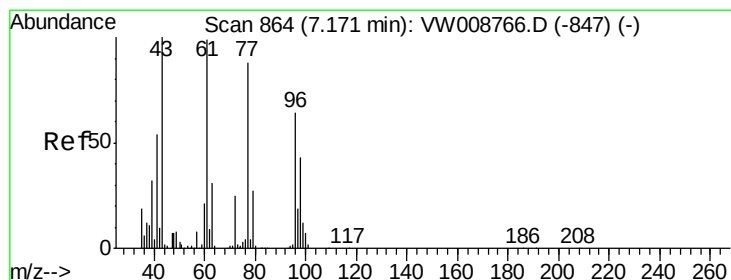
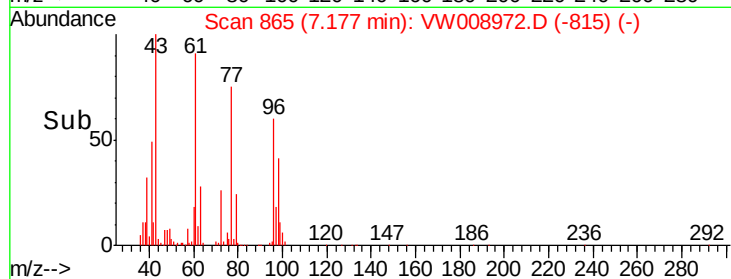
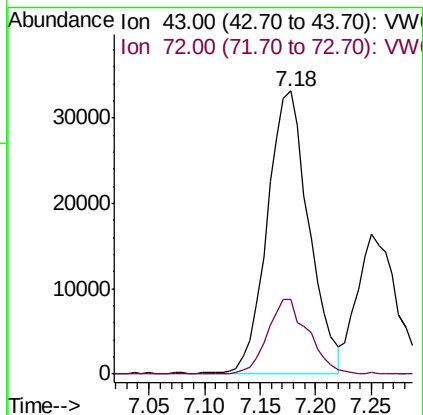
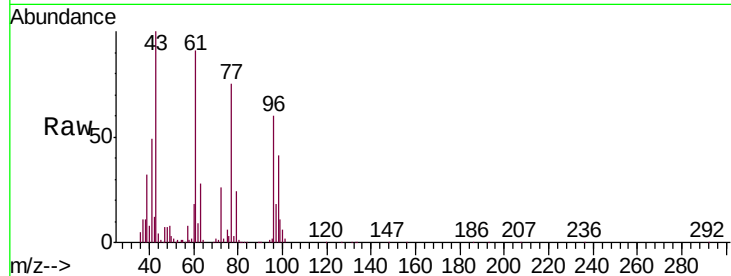
VW0305SBSD01

Tgt Ion: 43 Resp: 86836

Ion Ratio Lower Upper

43 100

72 26.4 19.7 29.5



#26

2,2-Dichloropropane

Concen: 20.390 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW008972.D

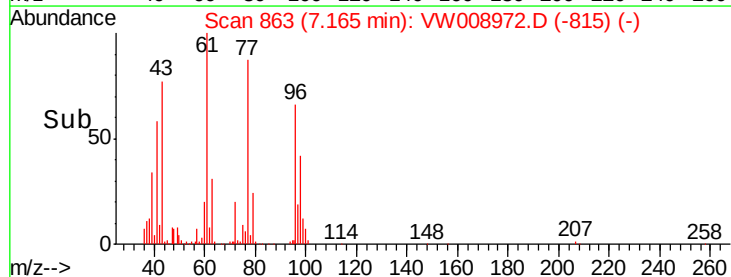
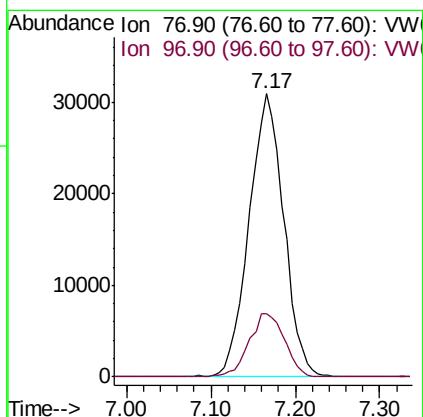
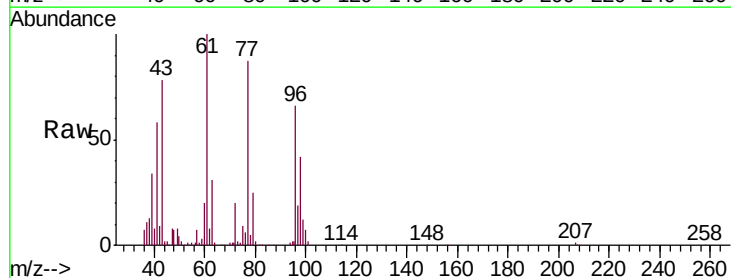
Acq: 04 Mar 2019 21:01

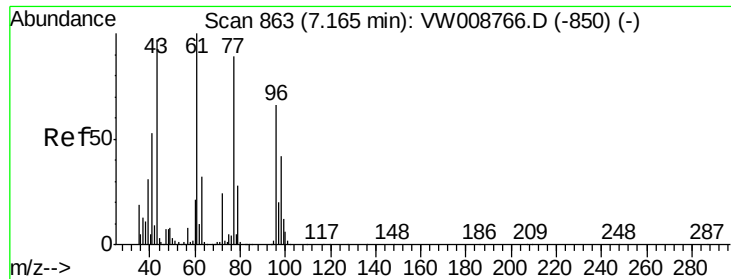
Tgt Ion: 77 Resp: 86784

Ion Ratio Lower Upper

77 100

97 22.9 11.0 33.0



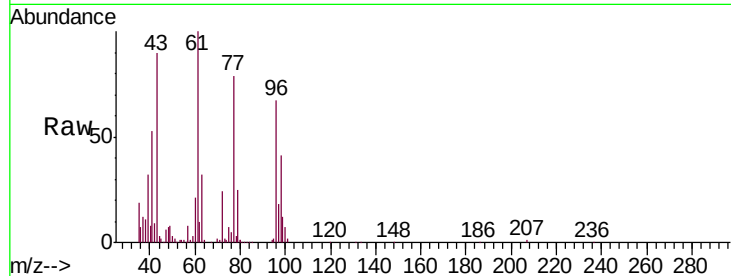


#27

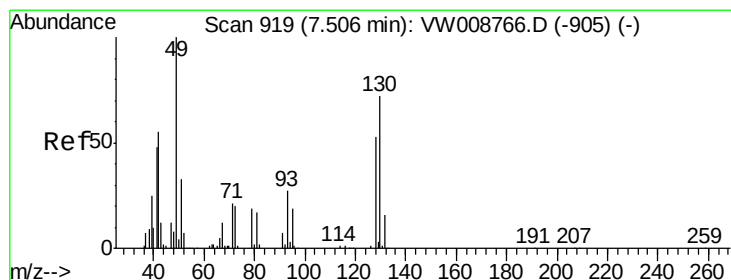
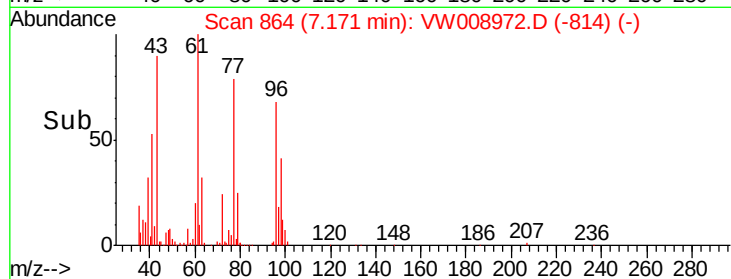
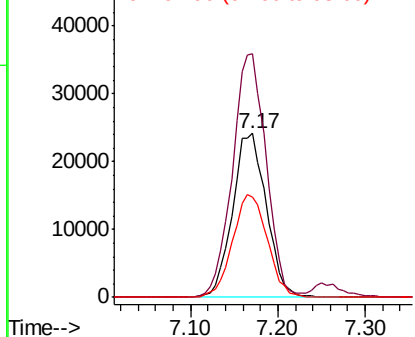
cis-1,2-Dichloroethene
 Concen: 22.363 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0305SBSD01

Tgt Ion: 96 Resp: 65022
 Ion Ratio Lower Upper
 96 100
 61 148.4 0.0 302.6
 98 64.1 0.0 130.0



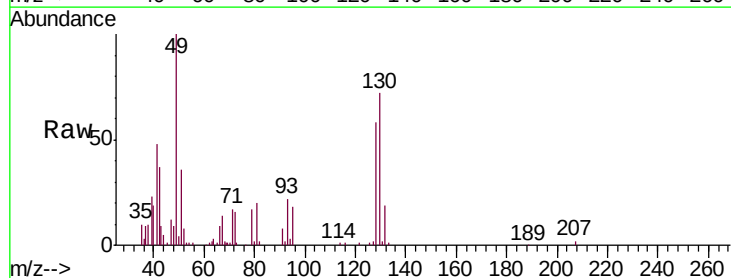
Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW



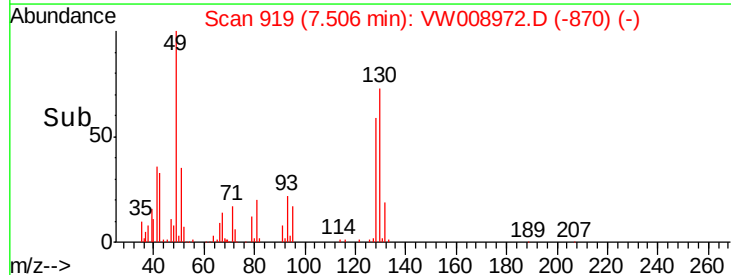
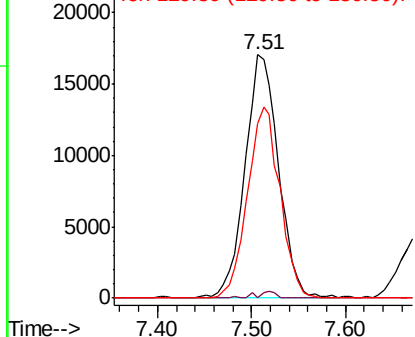
#28

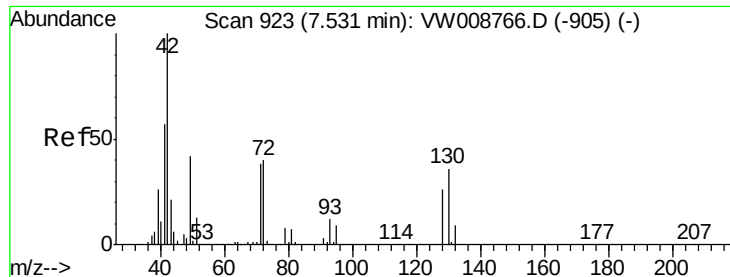
Bromochloromethane
 Concen: 21.699 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Tgt Ion: 49 Resp: 42570
 Ion Ratio Lower Upper
 49 100
 129 1.4 0.0 2.6
 130 76.3 61.3 91.9



Abundance Ion 48.90 (48.60 to 49.60): VW
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 107.262 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

VW0305SBSD01

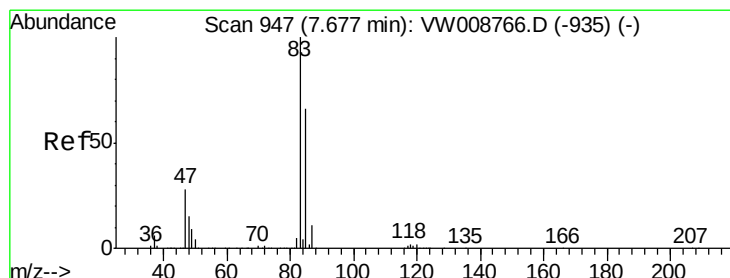
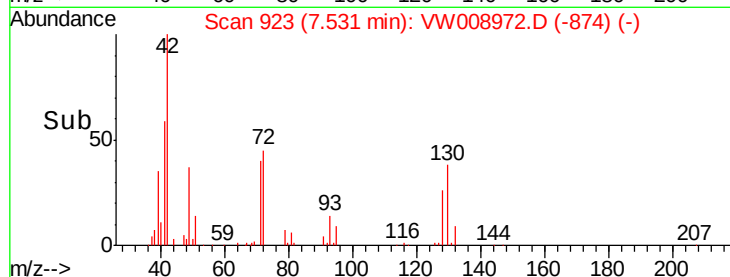
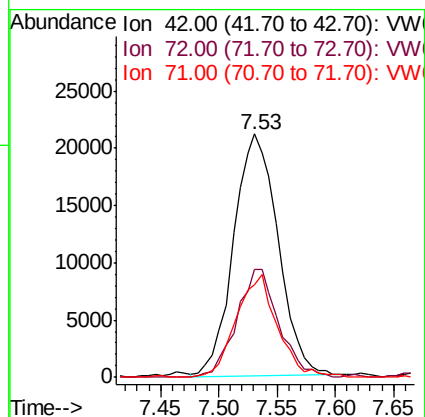
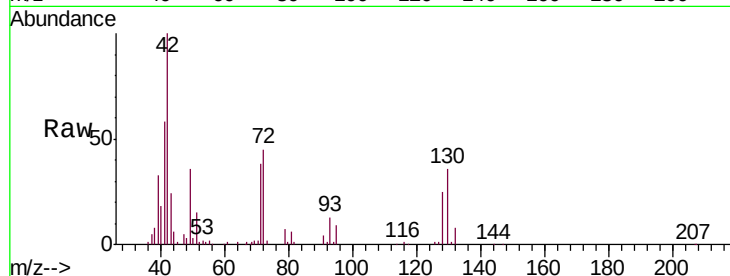
Tgt Ion: 42 Resp: 55758

Ion Ratio Lower Upper

42 100

72 42.7 32.7 49.1

71 40.0 31.3 46.9



#30

Chloroform

Concen: 22.748 ug/l

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW008972.D

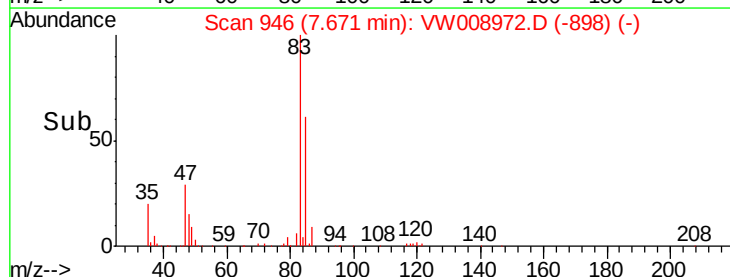
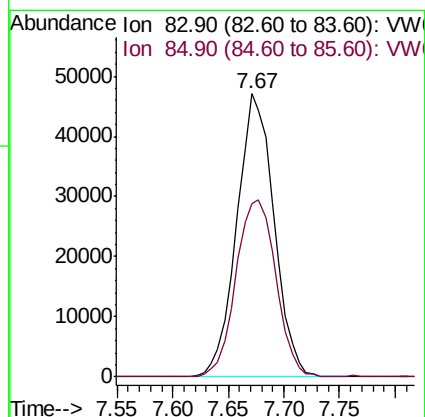
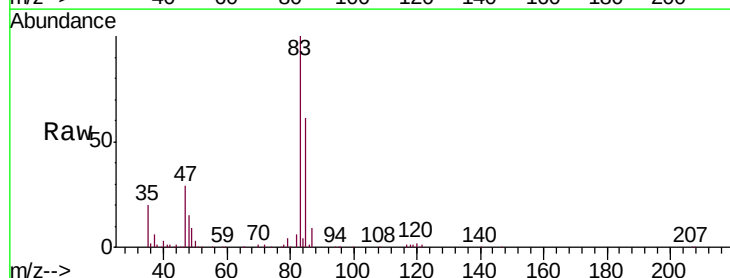
Acq: 04 Mar 2019 21:01

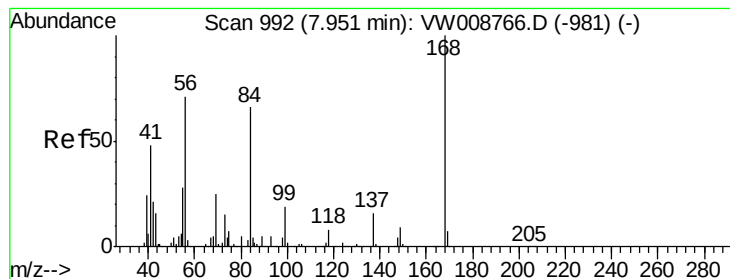
Tgt Ion: 83 Resp: 109406

Ion Ratio Lower Upper

83 100

85 61.3 52.6 79.0





#31

Cyclohexane

Concen: 20.976 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

VW0305SBSD01

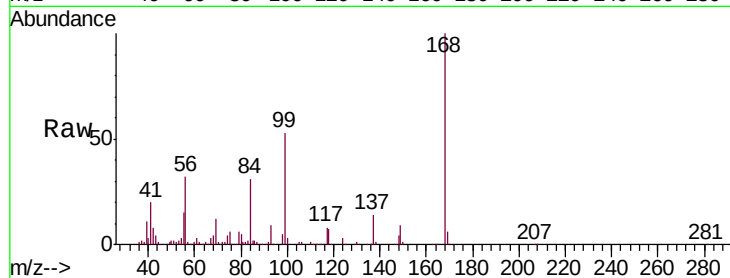
Tgt Ion: 56 Resp: 99539

Ion Ratio Lower Upper

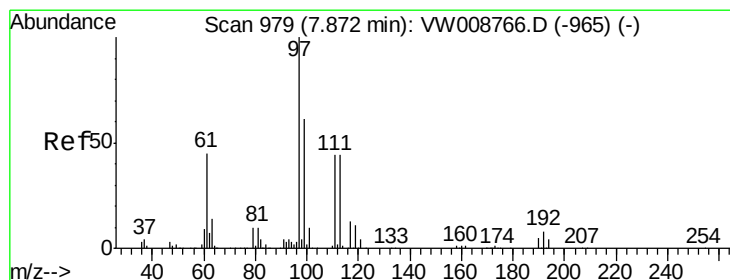
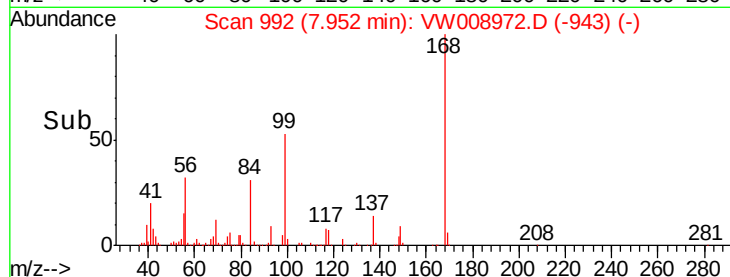
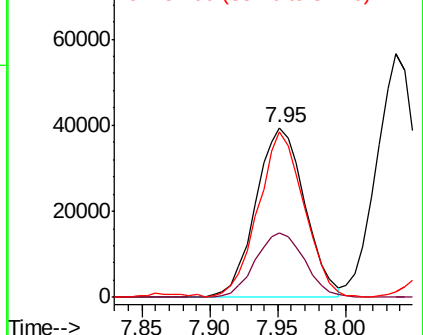
56 100

69 37.6 28.2 42.4

84 96.3 74.1 111.1



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#32

1,1,1-Trichloroethane

Concen: 22.978 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

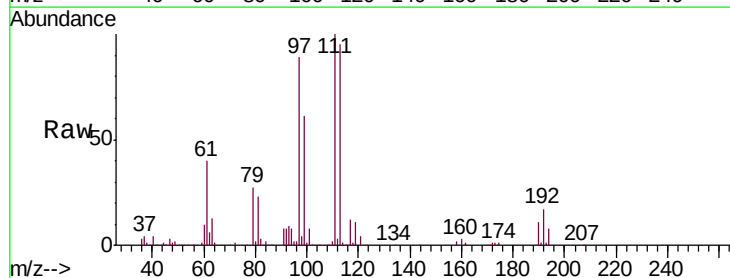
Tgt Ion: 97 Resp: 100500

Ion Ratio Lower Upper

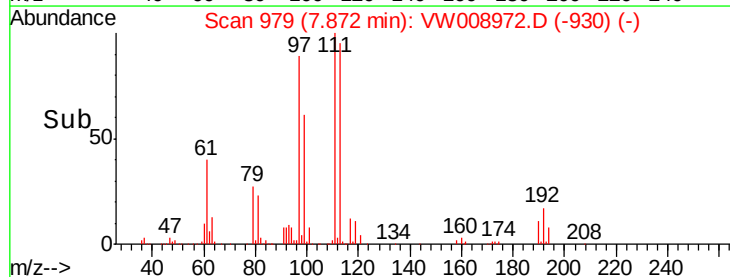
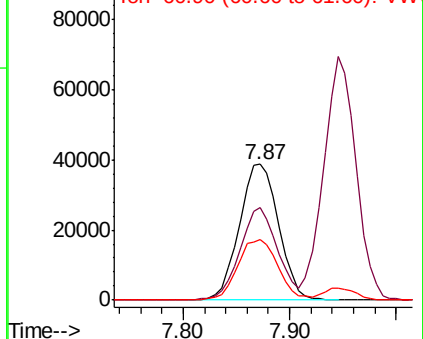
97 100

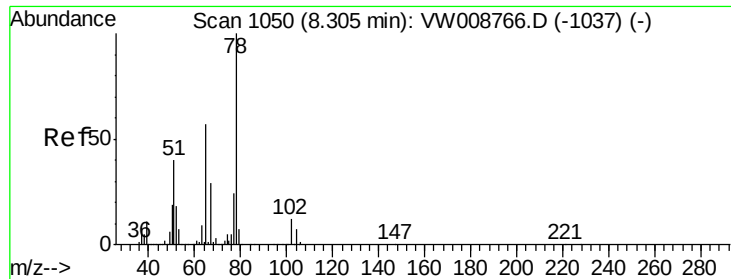
99 65.2 50.8 76.2

61 46.0 36.0 54.0



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW

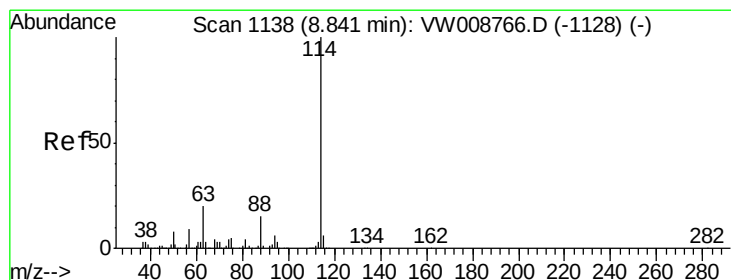
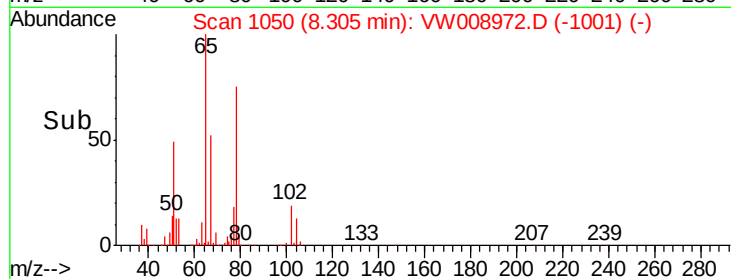
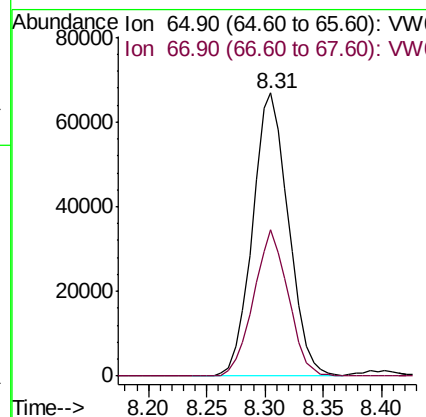
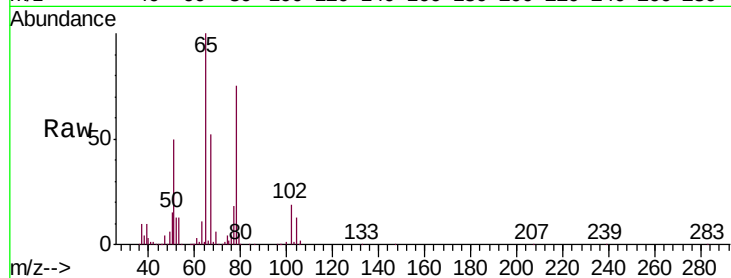




#33
 1,2-Dichloroethane-d4
 Concen: 56.943 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

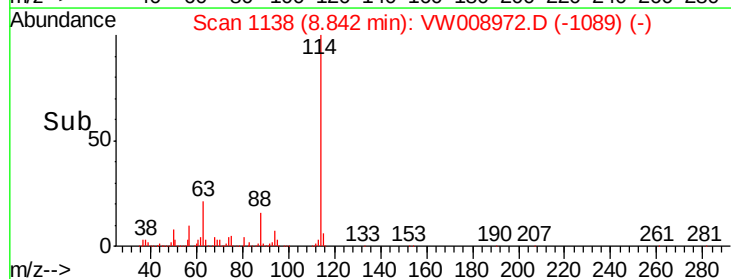
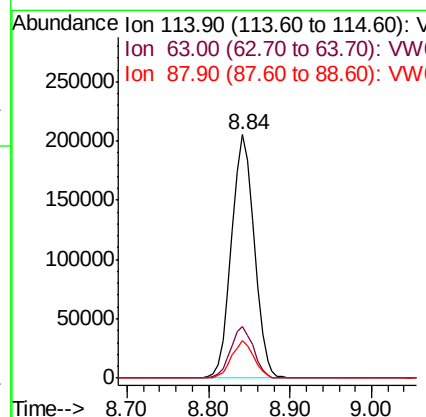
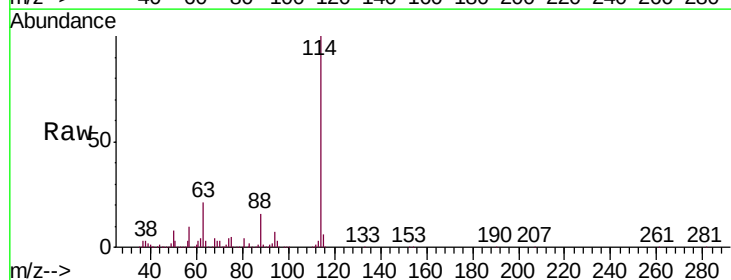
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0305SBSD01

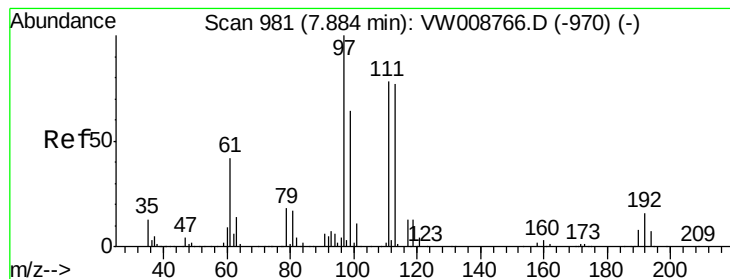
Tgt Ion: 65 Resp: 143336
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Tgt Ion: 114 Resp: 394513
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 40.8
 88 15.6 0.0 30.4





#35

Dibromofluoromethane

Concen: 54.761 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

VW0305SBS01

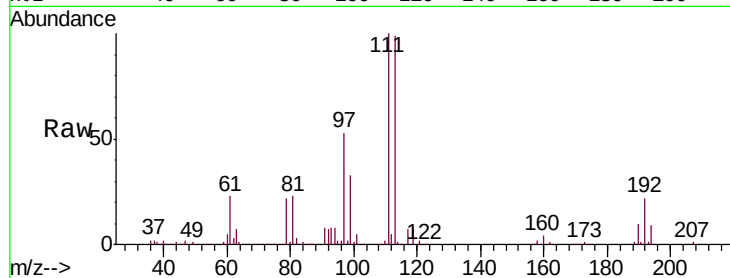
Tgt Ion:113 Resp: 129713

Ion Ratio Lower Upper

113 100

111 101.6 81.9 122.9

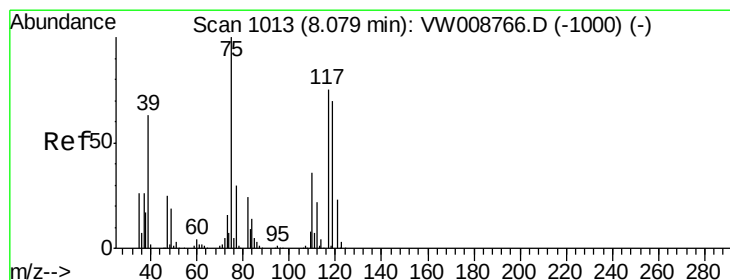
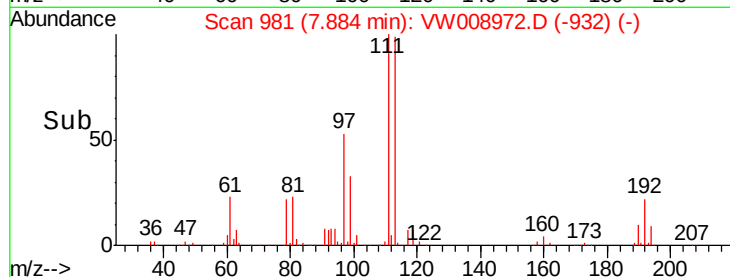
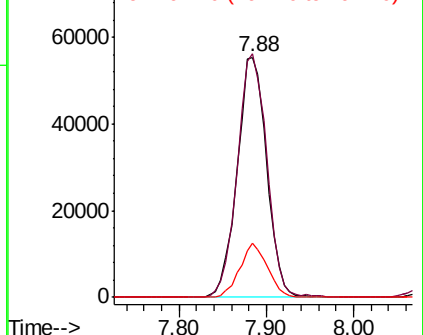
192 21.0 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 22.442 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

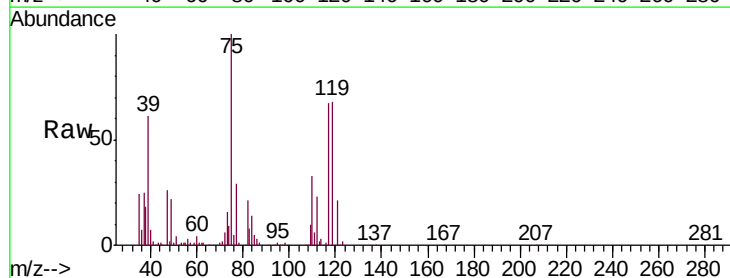
Tgt Ion: 75 Resp: 86186

Ion Ratio Lower Upper

75 100

110 35.3 17.5 52.6

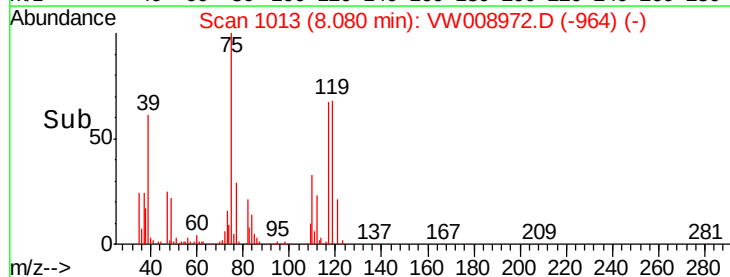
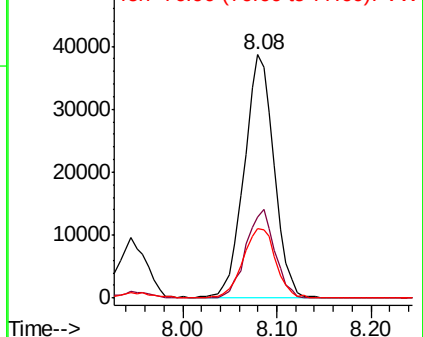
77 31.4 24.5 36.7

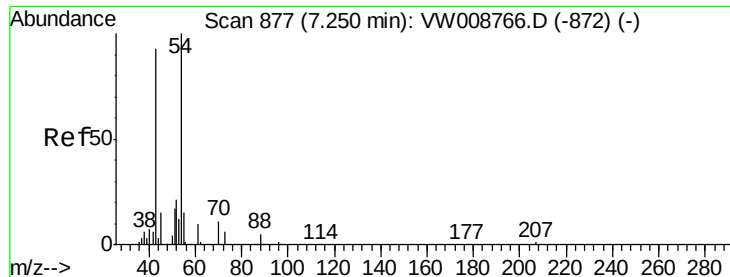


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

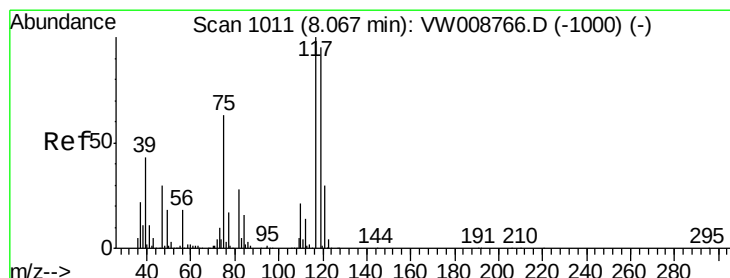
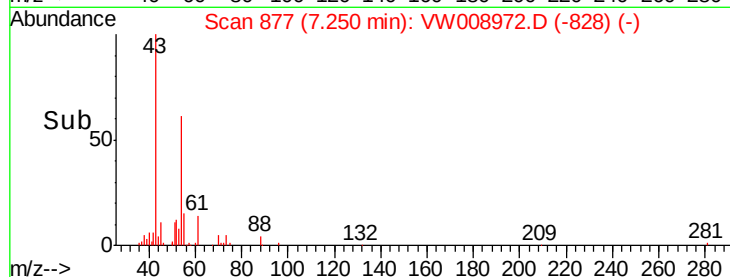
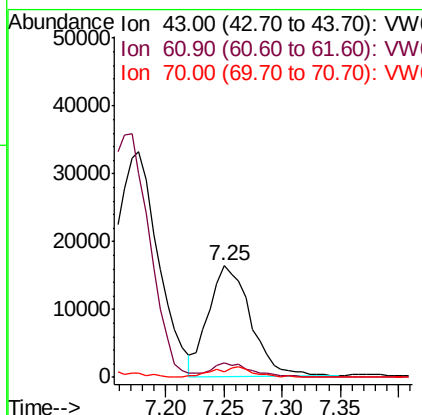
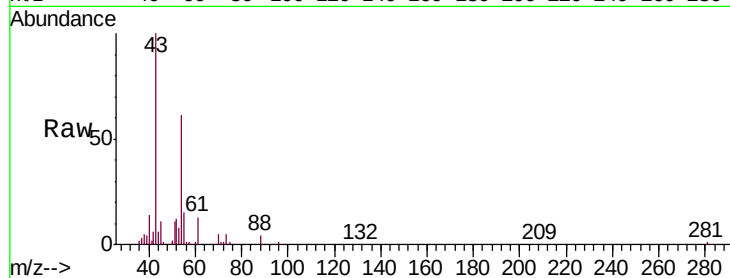




#37
Ethyl Acetate
Concen: 22.965 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

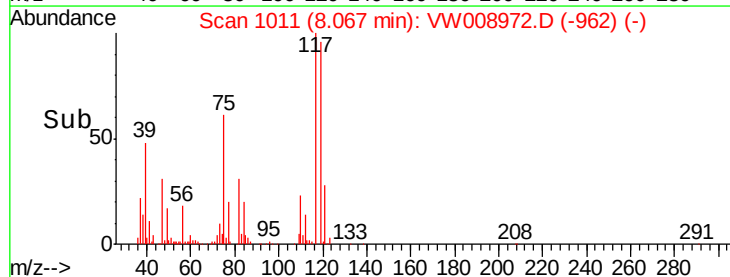
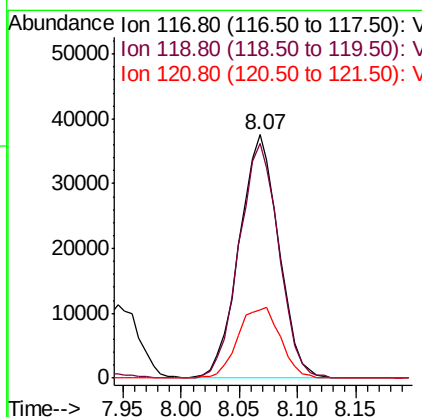
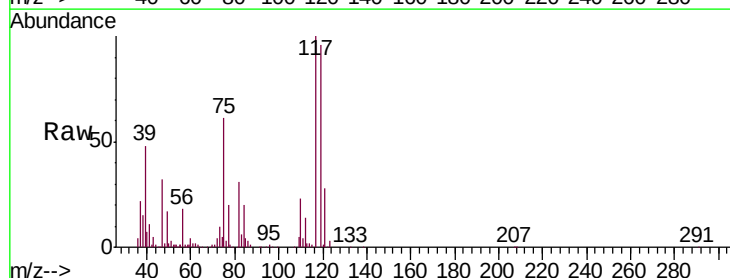
Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

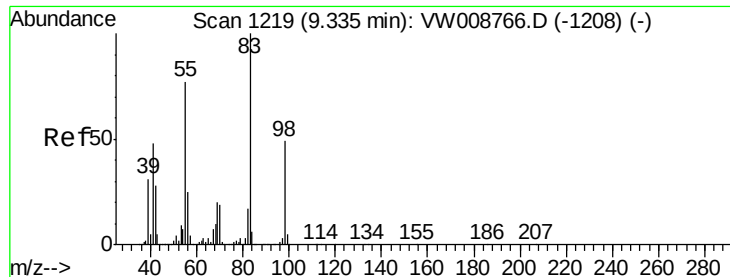
Tgt Ion: 43 Resp: 41012
Ion Ratio Lower Upper
43 100
61 11.9 9.8 14.8
70 9.7 8.4 12.6



#38
Carbon Tetrachloride
Concen: 21.919 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Tgt Ion: 117 Resp: 88772
Ion Ratio Lower Upper
117 100
119 96.1 76.1 114.1
121 28.2 24.0 36.0

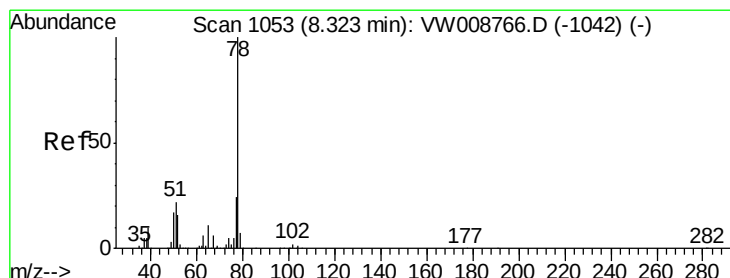
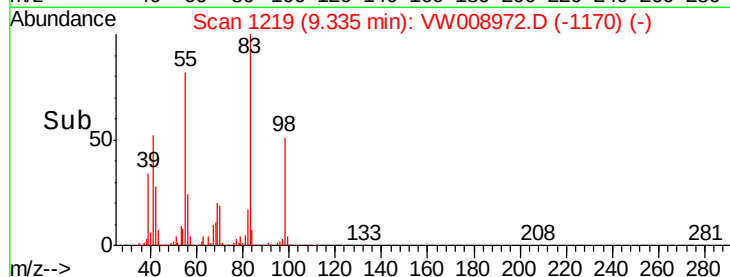
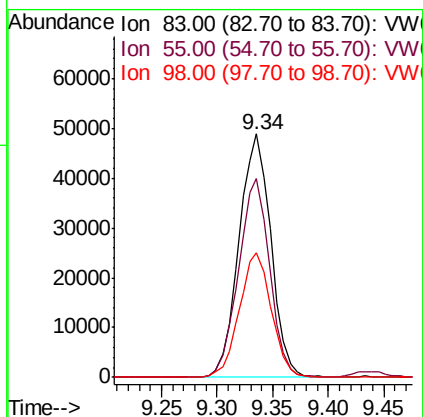
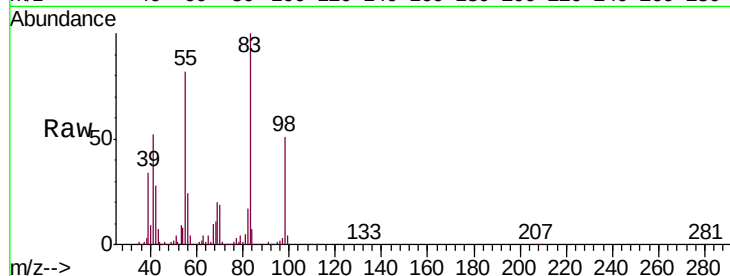




#39
Methylcyclohexane
Concen: 20.269 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

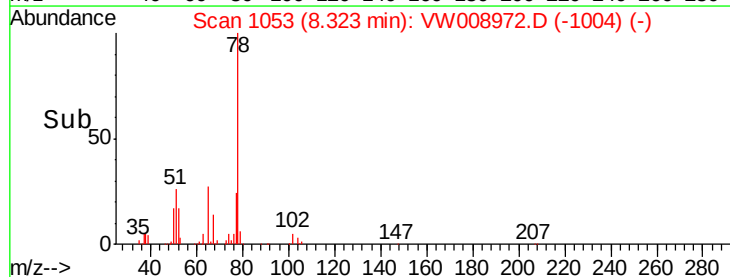
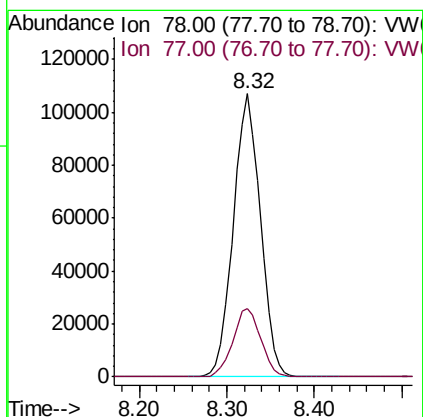
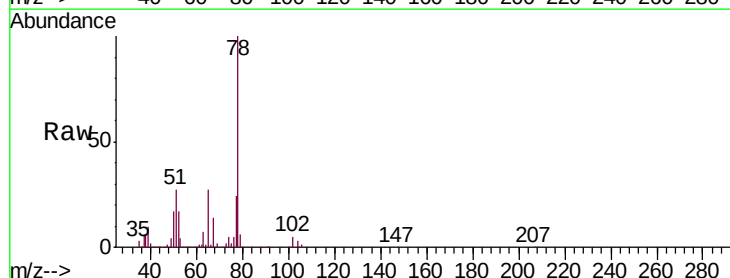
Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

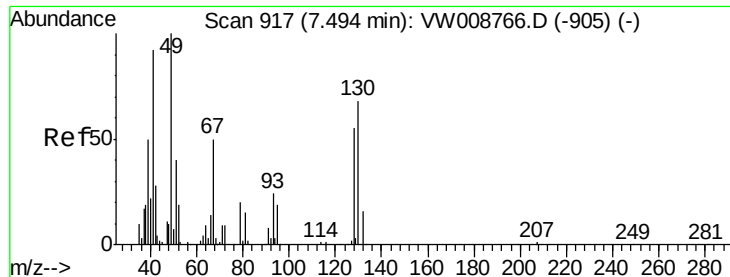
Tgt Ion: 83 Resp: 97093
Ion Ratio Lower Upper
83 100
55 81.3 61.2 91.8
98 50.9 39.4 59.2



#40
Benzene
Concen: 21.998 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Tgt Ion: 78 Resp: 230657
Ion Ratio Lower Upper
78 100
77 24.3 19.3 28.9

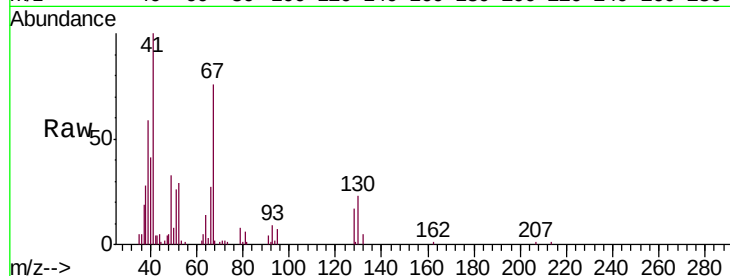




#41
Methacrylonitrile
Concen: 20.865 ug/l
RT: 7.48 min Scan# 915
Delta R.T. -0.01 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

Tgt Ion:	41	Resp:	21903
Ion	Ratio	Lower	Upper
41	100		
39	65.1	52.5	78.7
67	72.8	55.0	82.6
52	32.7	26.9	40.3



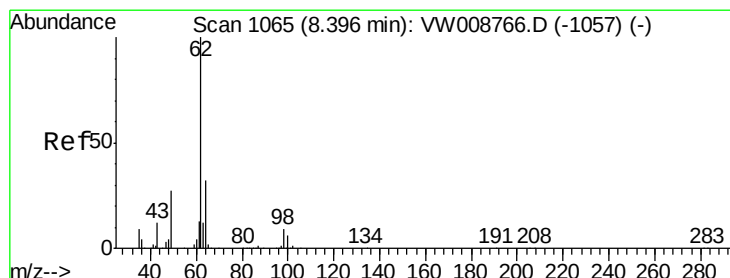
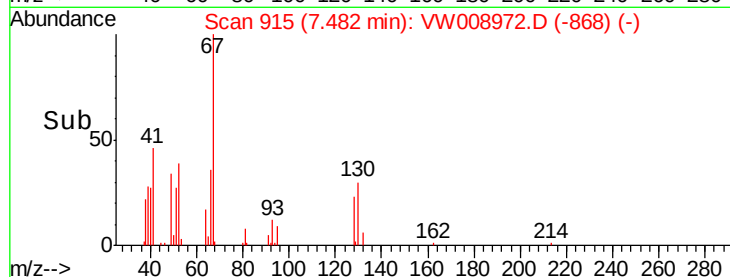
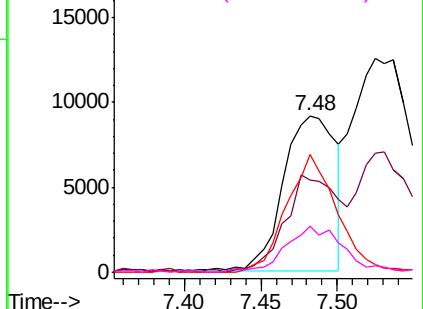
Abundance

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

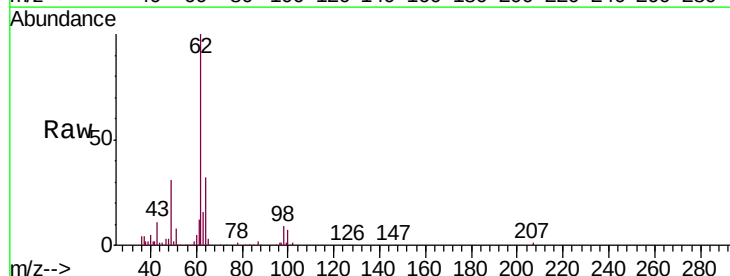
Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#42
1,2-Dichloroethane
Concen: 23.523 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

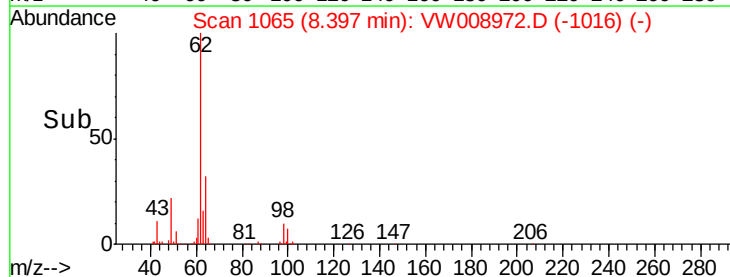
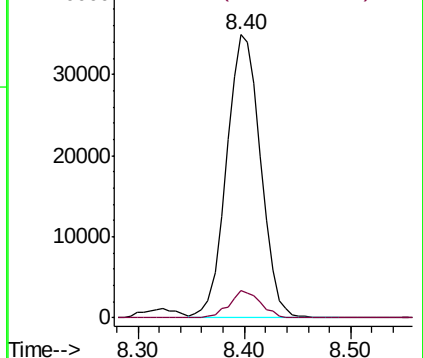
Tgt Ion:	62	Resp:	78133
Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2

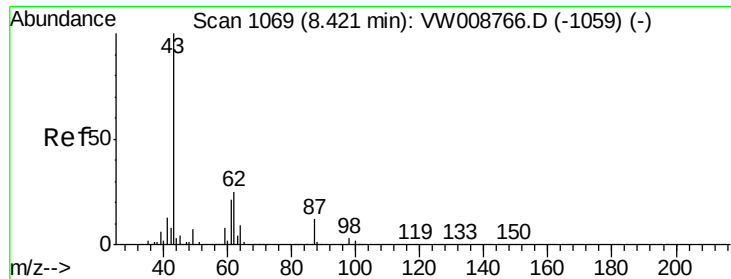


Abundance

Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 22.149 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

VW0305SBSD01

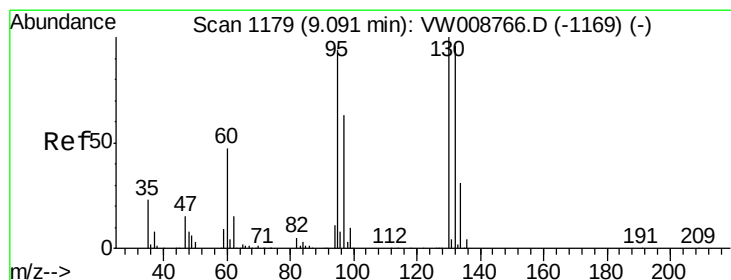
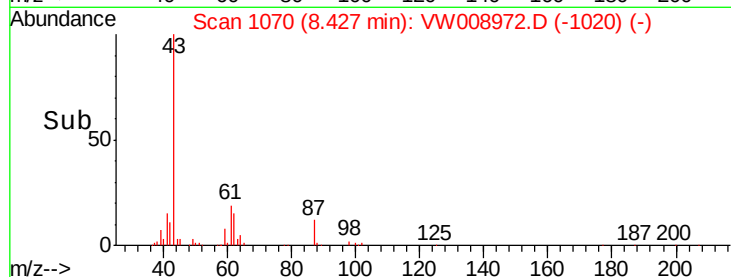
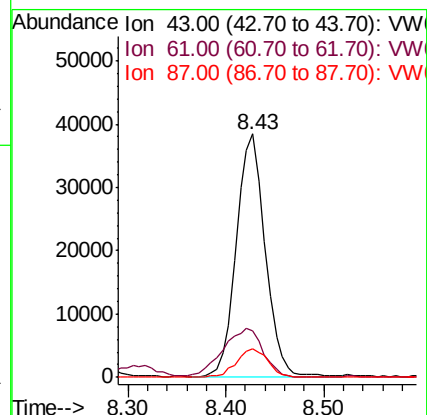
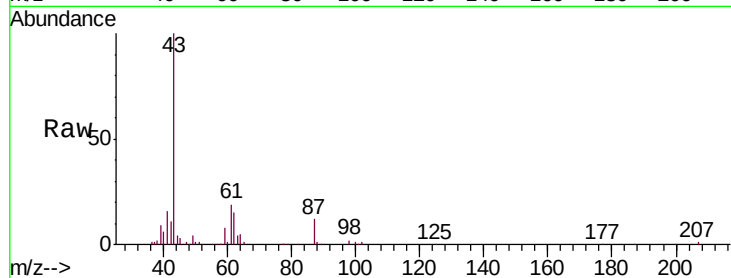
Tgt Ion: 43 Resp: 78945

Ion Ratio Lower Upper

43 100

61 28.4 23.2 34.8

87 12.8 9.9 14.9



#44

Trichloroethene

Concen: 21.920 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW008972.D

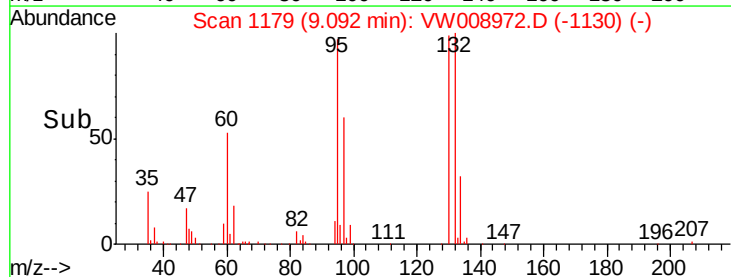
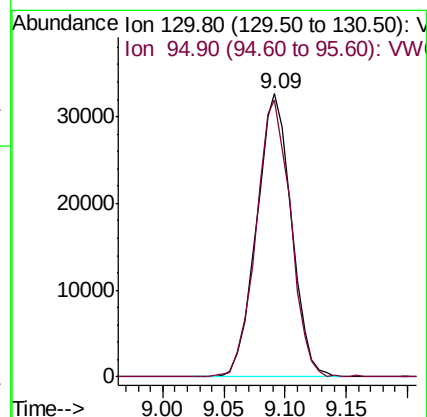
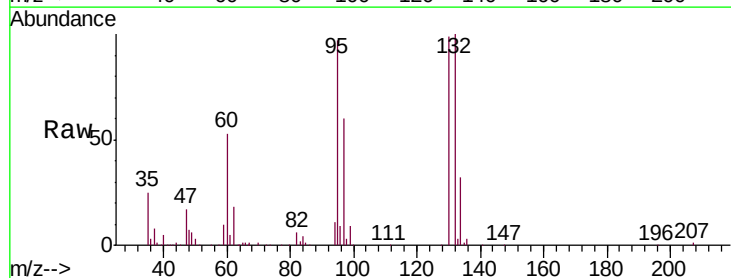
Acq: 04 Mar 2019 21:01

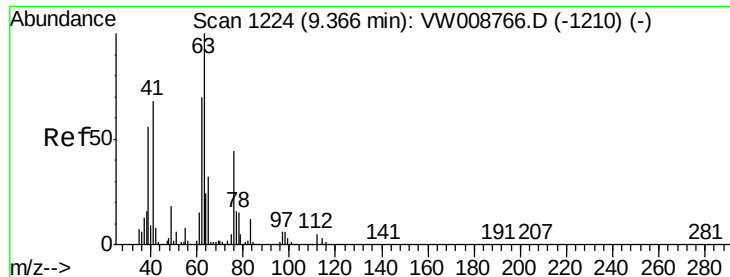
Tgt Ion: 130 Resp: 64746

Ion Ratio Lower Upper

130 100

95 97.9 0.0 188.6





#45

1,2-Dichloropropane

Concen: 23.009 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

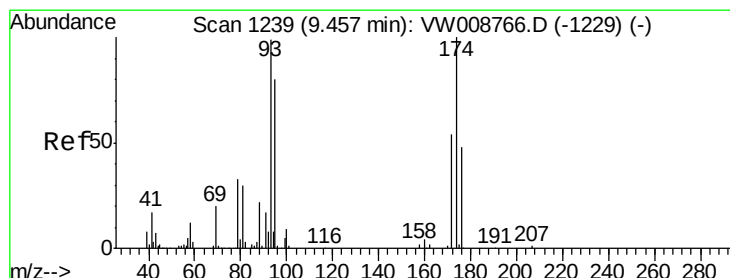
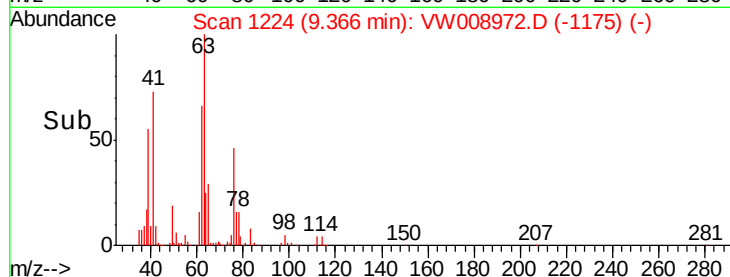
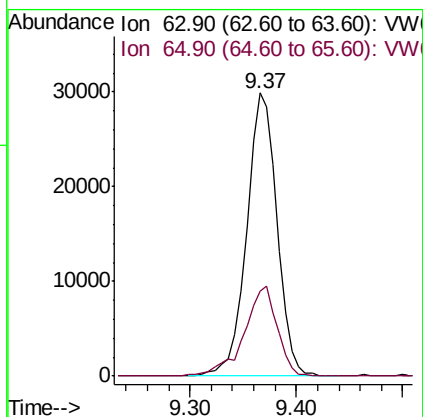
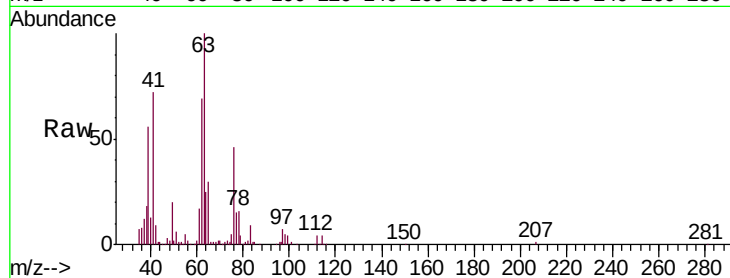
VW0305SBSD01

Tgt Ion: 63 Resp: 59617

Ion Ratio Lower Upper

63 100

65 30.1 25.5 38.3



#46

Dibromomethane

Concen: 23.593 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

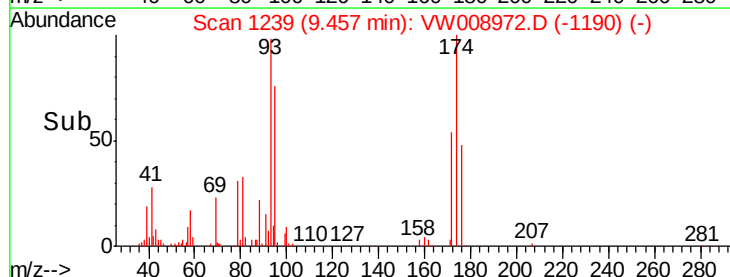
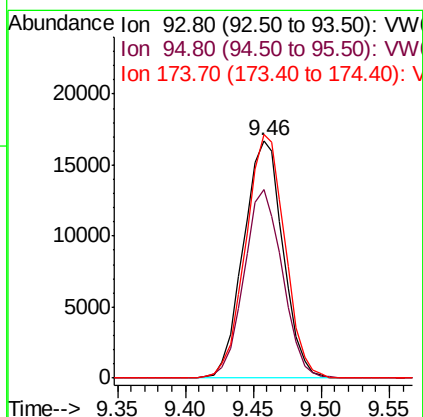
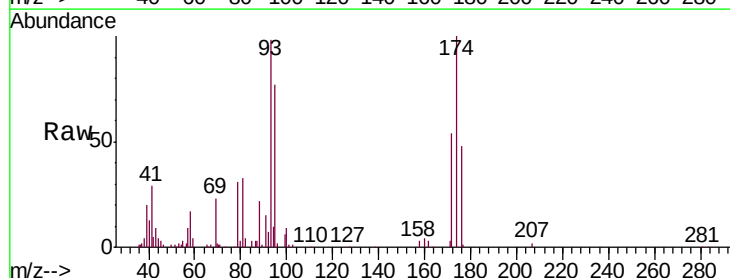
Tgt Ion: 93 Resp: 34003

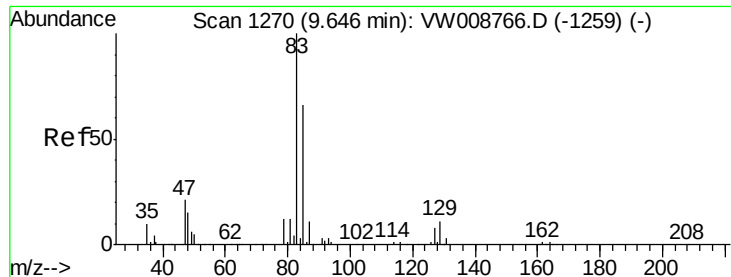
Ion Ratio Lower Upper

93 100

95 77.2 67.7 101.5

174 102.0 86.7 130.1

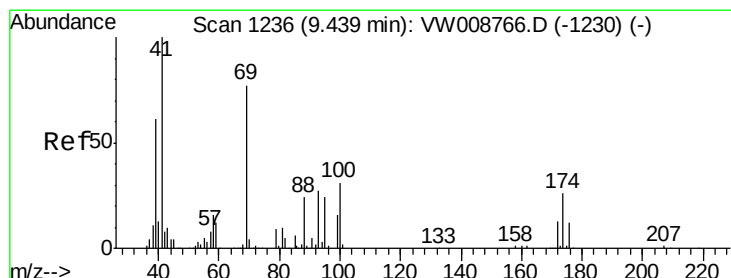
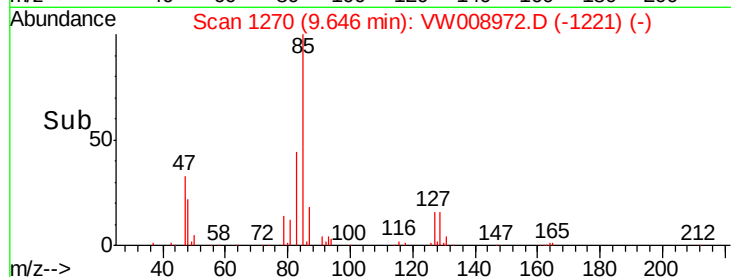
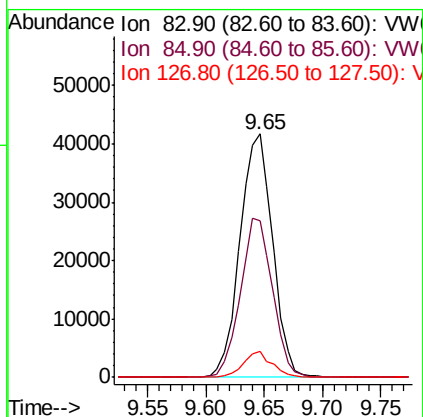
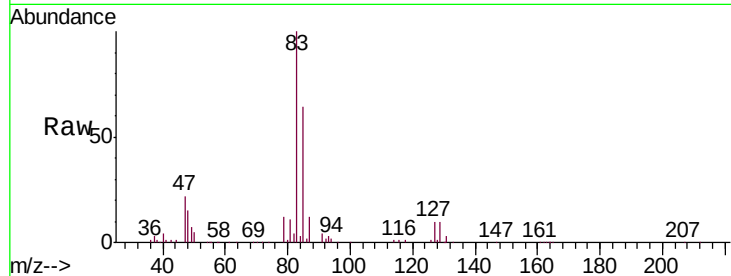




#47
Bromodichloromethane
Concen: 23.281 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

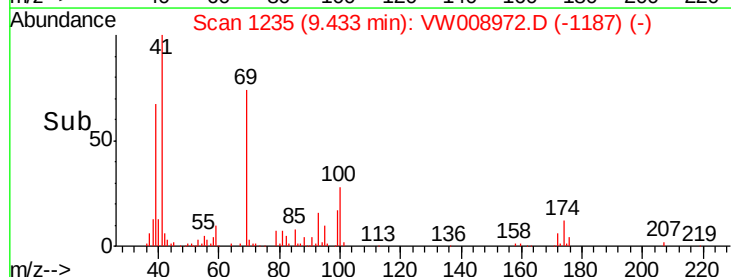
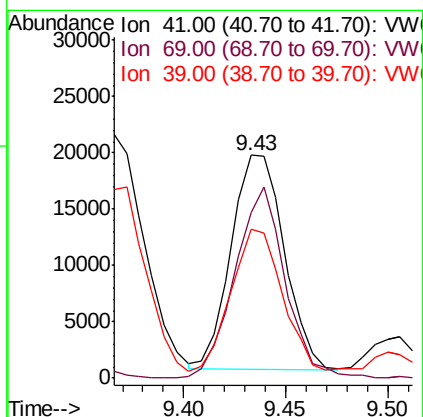
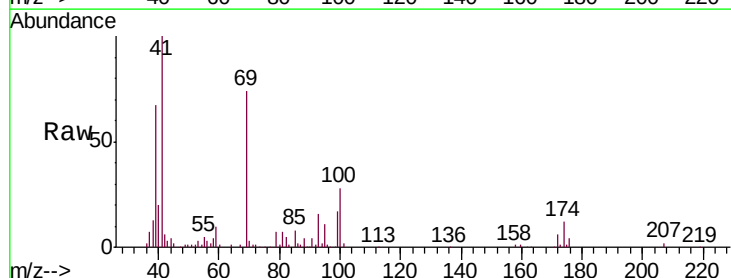
Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

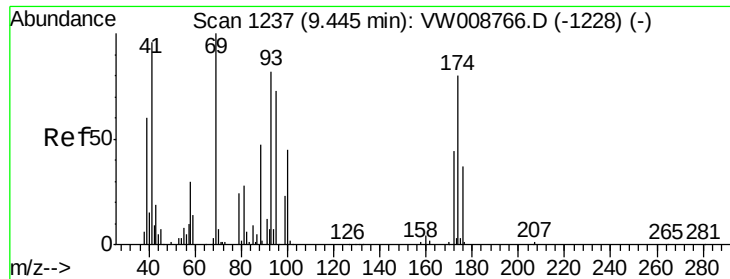
Tgt Ion: 83 Resp: 81636
Ion Ratio Lower Upper
83 100
85 64.2 52.5 78.7
127 10.5 6.7 10.1#



#48
Methyl methacrylate
Concen: 20.071 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.01 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Tgt Ion: 41 Resp: 34262
Ion Ratio Lower Upper
41 100
69 85.3 63.6 95.4
39 65.6 52.1 78.1

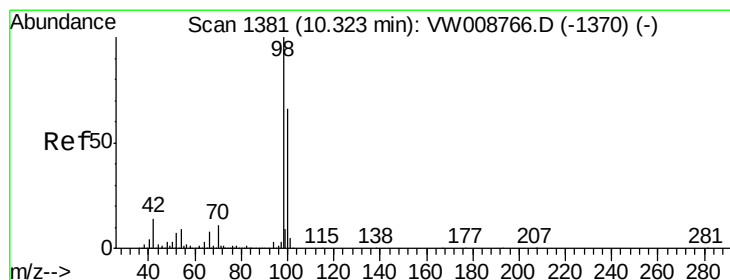
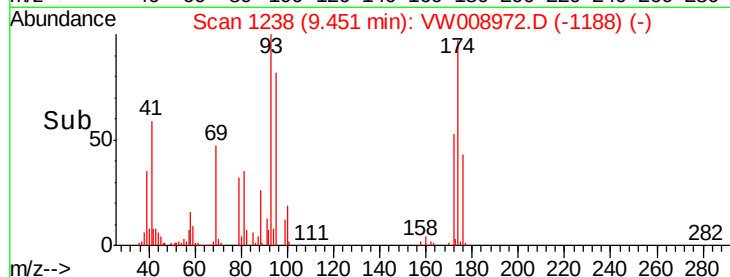
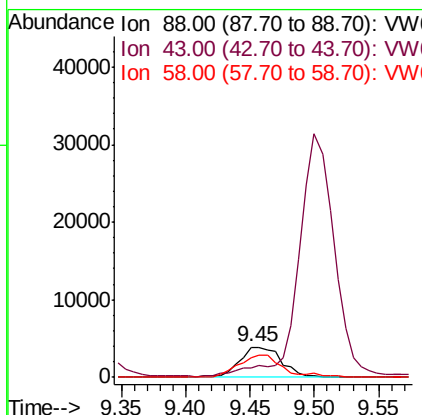
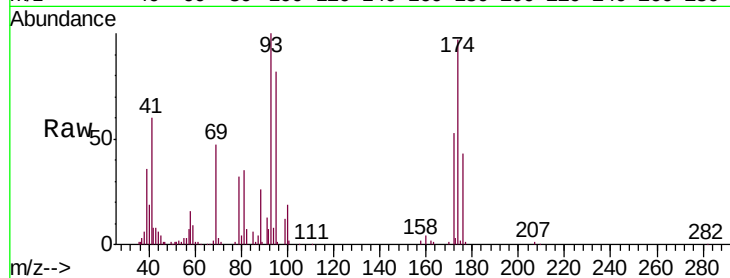




#49
1,4-Dioxane
Concen: 378.851 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

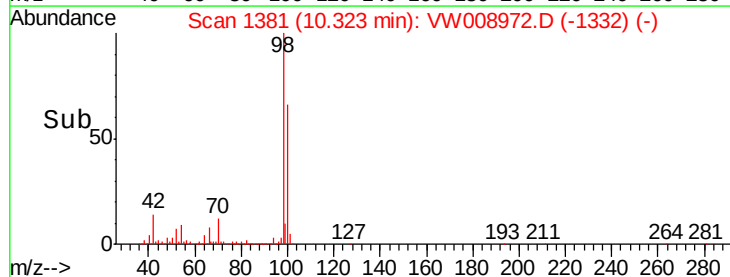
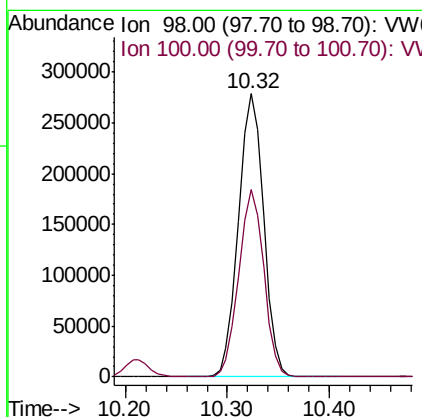
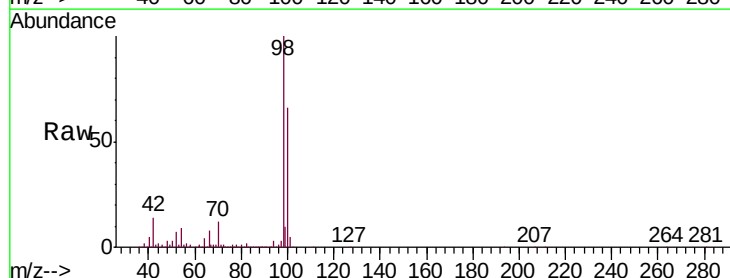
Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

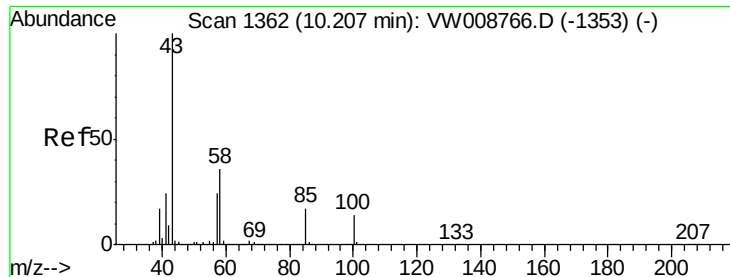
Tgt Ion: 88 Resp: 8744
Ion Ratio Lower Upper
88 100
43 0.0 29.0 43.4#
58 77.4 52.0 78.0



#50
Toluene-d8
Concen: 52.146 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Tgt Ion: 98 Resp: 476814
Ion Ratio Lower Upper
98 100
100 65.7 52.4 78.6

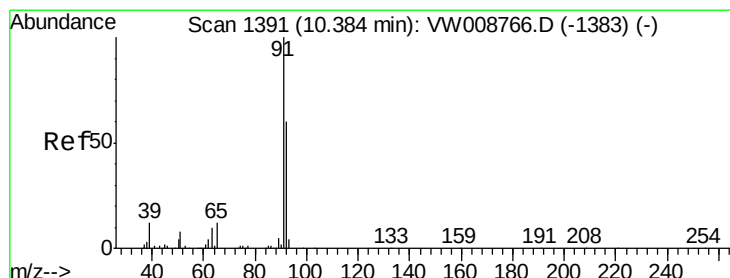
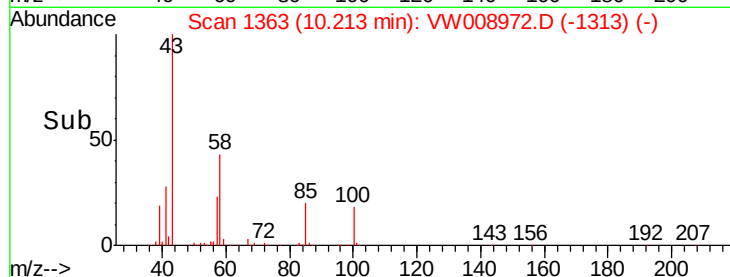
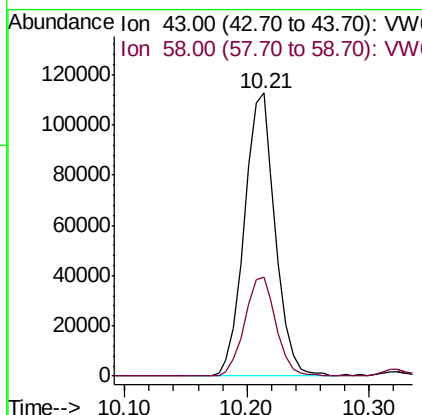
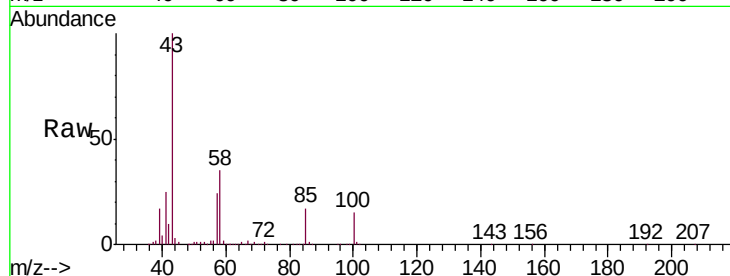




#51
 4-Methyl-2-Pentanone
 Concen: 109.131 ug/l
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

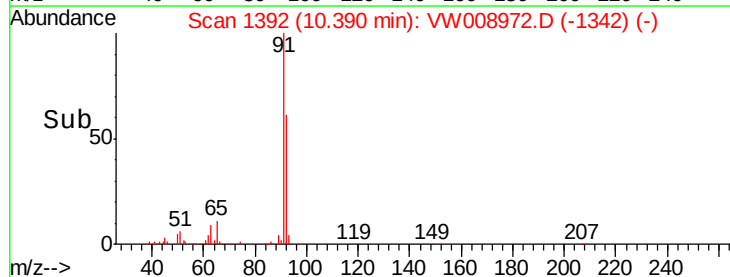
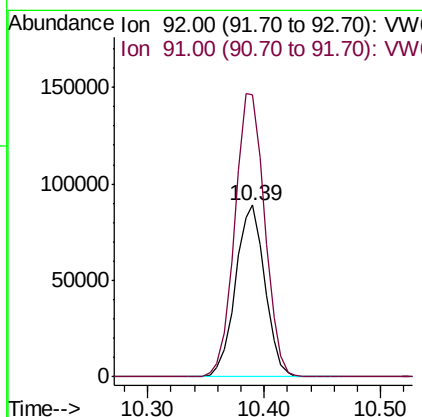
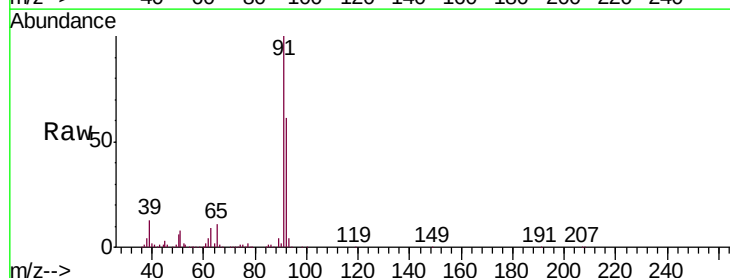
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0305SBSD01

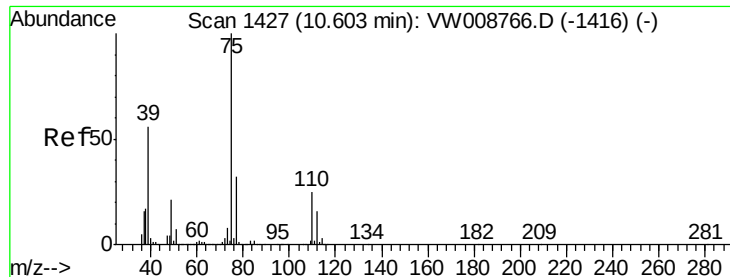
Tgt Ion: 43 Resp: 197477
 Ion Ratio Lower Upper
 43 100
 58 35.8 29.1 43.7



#52
 Toluene
 Concen: 21.988 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Tgt Ion: 92 Resp: 156467
 Ion Ratio Lower Upper
 92 100
 91 168.6 136.9 205.3





#53

t-1,3-Dichloropropene

Concen: 21.910 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

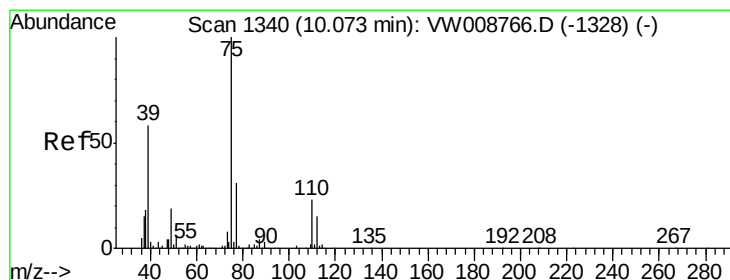
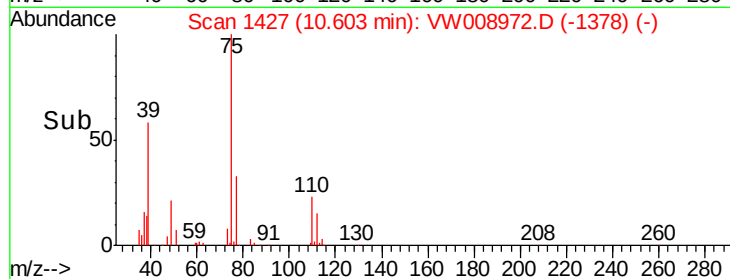
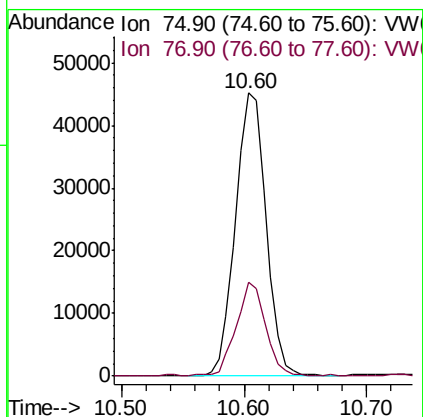
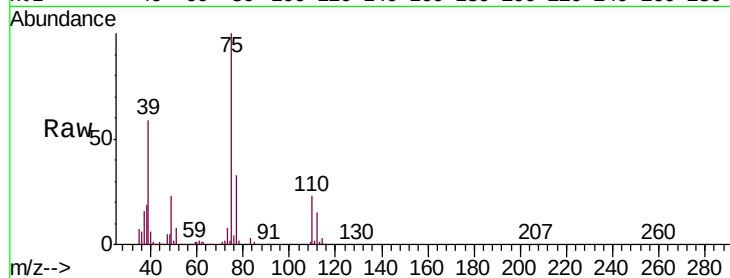
VW0305SBSD01

Tgt Ion: 75 Resp: 78309

Ion Ratio Lower Upper

75 100

77 33.0 26.1 39.1



#54

cis-1,3-Dichloropropene

Concen: 22.565 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

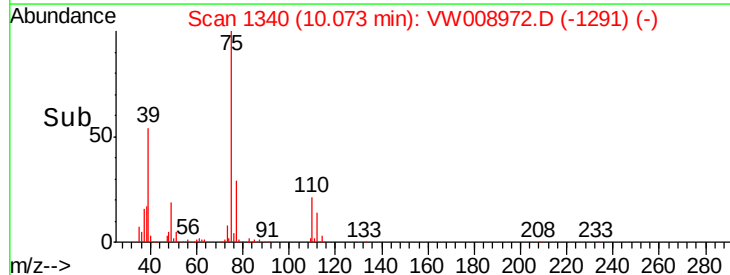
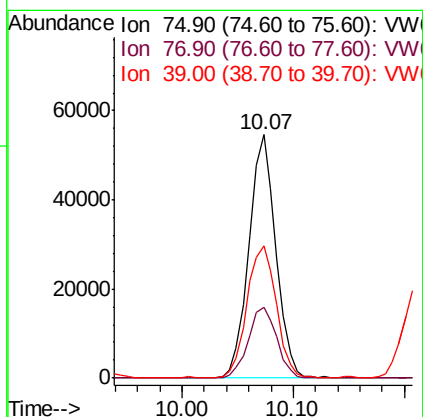
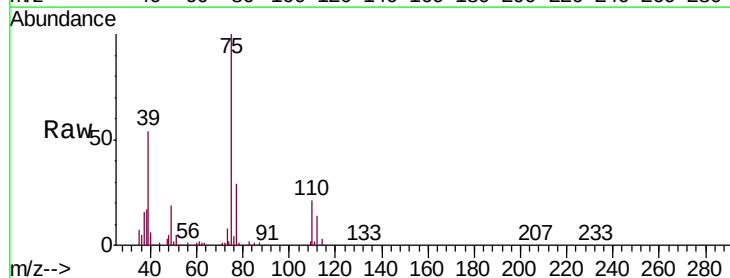
Tgt Ion: 75 Resp: 91983

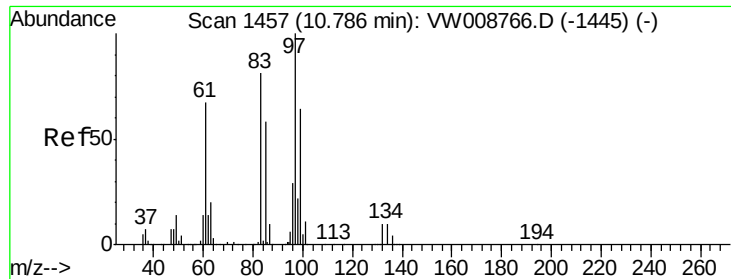
Ion Ratio Lower Upper

75 100

77 29.3 25.0 37.4

39 53.8 46.6 70.0





#55

1,1,2-Trichloroethane

Concen: 23.445 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

VW0305SBSD01

Tgt Ion: 97 Resp: 45824

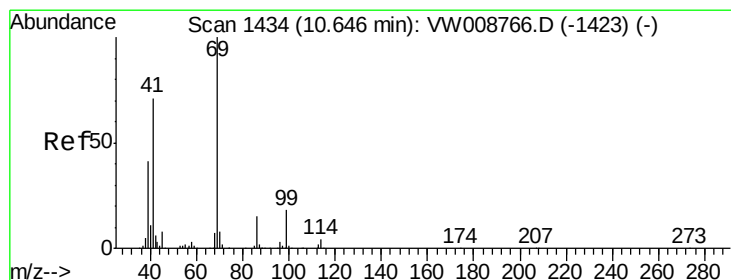
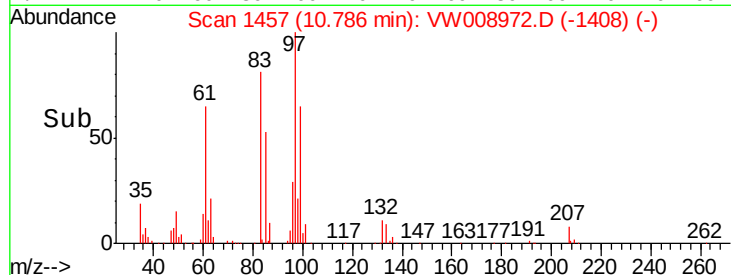
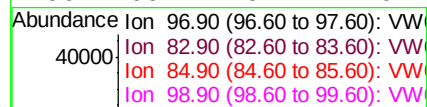
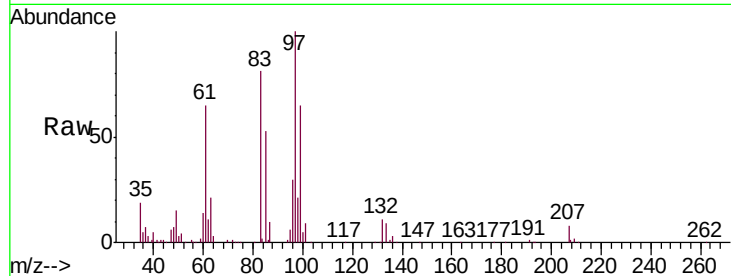
Ion Ratio Lower Upper

97 100

83 80.6 65.0 97.6

85 53.3 46.0 69.0

99 65.4 51.1 76.7



#56

Ethyl methacrylate

Concen: 20.850 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

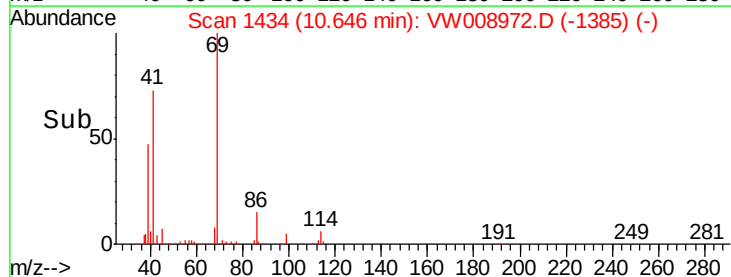
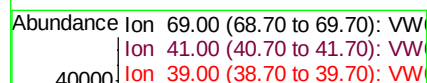
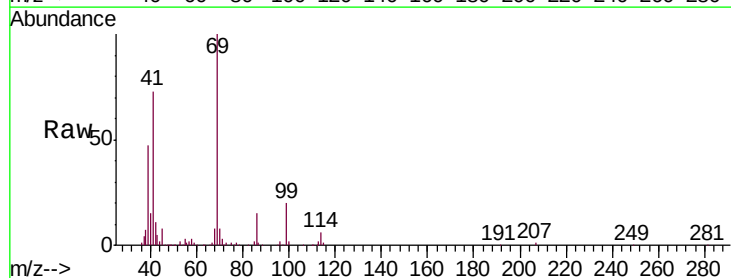
Tgt Ion: 69 Resp: 52946

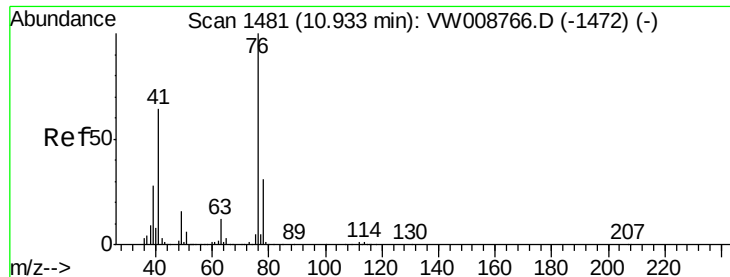
Ion Ratio Lower Upper

69 100

41 72.3 57.4 86.0

39 45.0 34.8 52.2





#57

1,3-Dichloropropane

Concen: 23.173 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW008972.D

Acq: 04 Mar 2019 21:01

Instrument :

MSVOA_W

ClientSampleId :

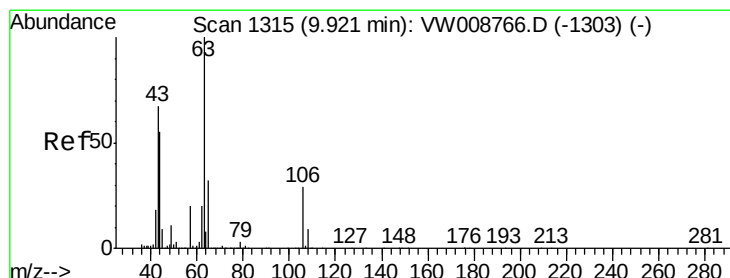
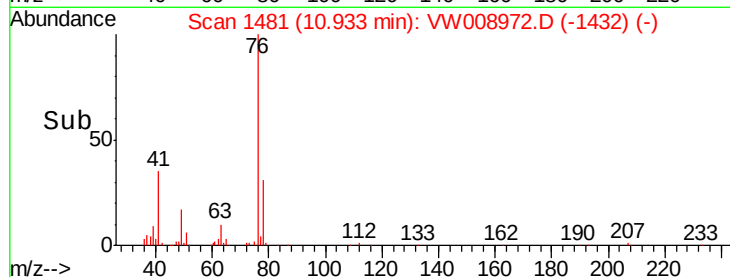
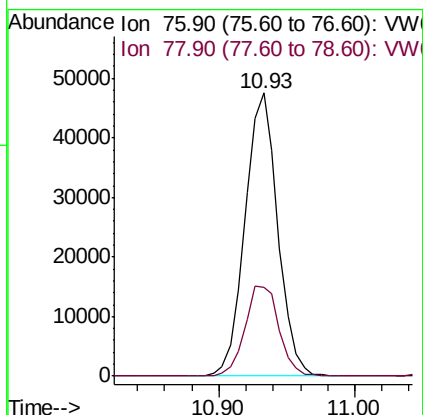
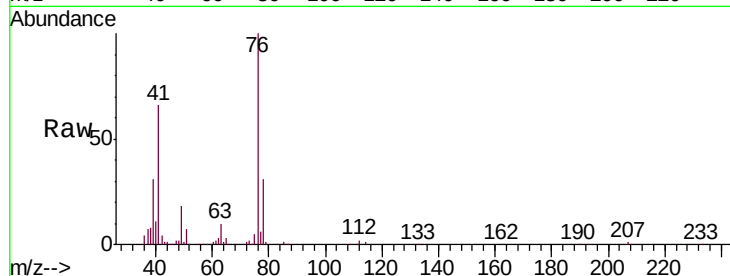
VW0305SBSD01

Tgt Ion: 76 Resp: 79971

Ion Ratio Lower Upper

76 100

78 33.4 25.8 38.8



#58

2-Chloroethyl Vinyl ether

Concen: 112.191 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW008972.D

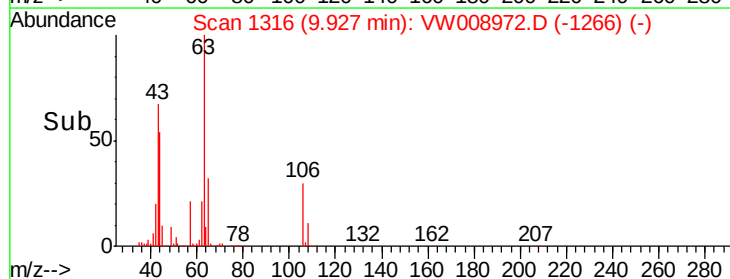
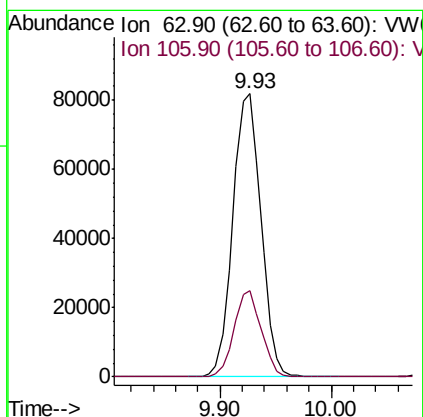
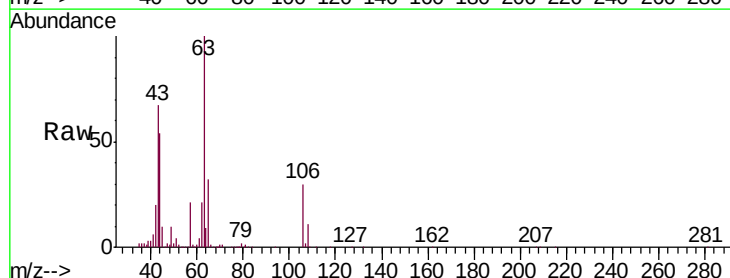
Acq: 04 Mar 2019 21:01

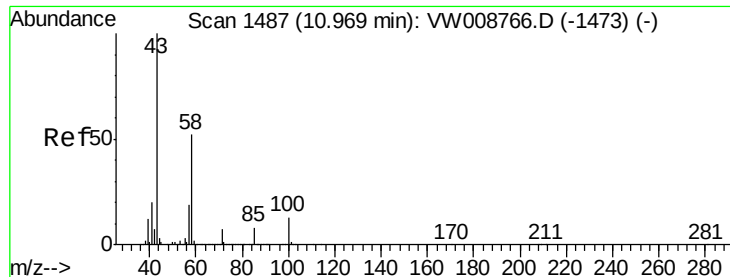
Tgt Ion: 63 Resp: 143287

Ion Ratio Lower Upper

63 100

106 29.3 24.0 36.0

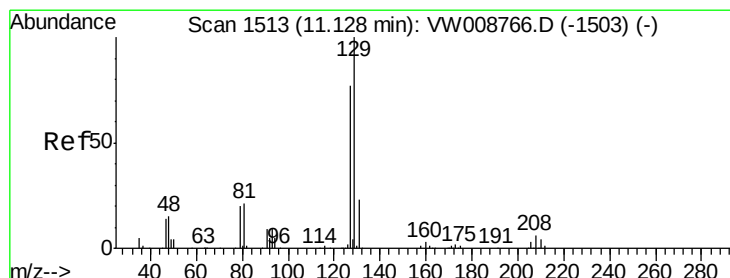
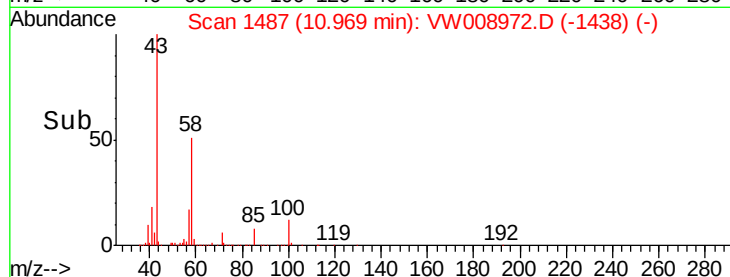
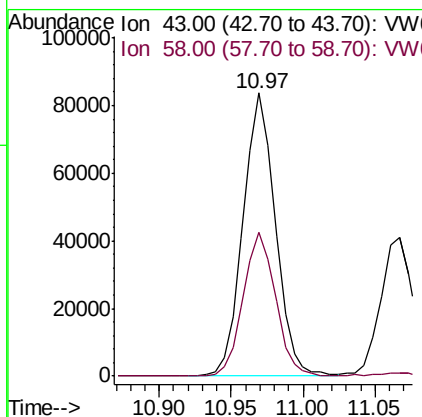
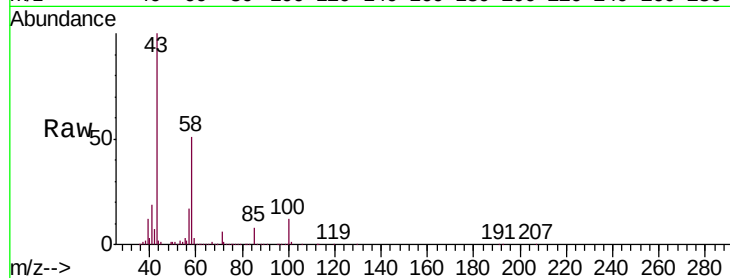




#59
2-Hexanone
Concen: 101.629 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

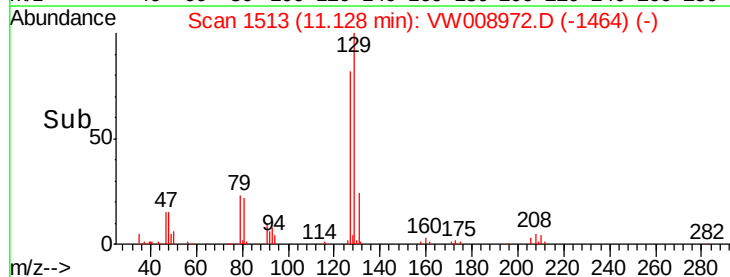
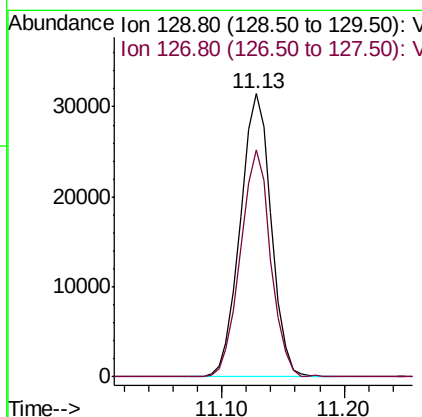
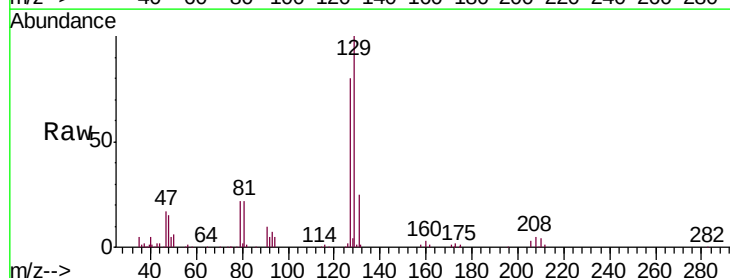
Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

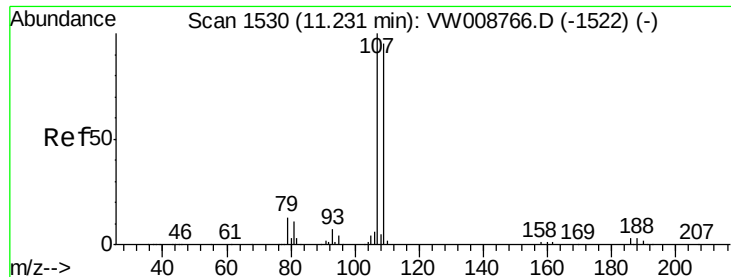
Tgt Ion: 43 Resp: 130909
Ion Ratio Lower Upper
43 100
58 50.6 25.3 75.8



#60
Dibromochloromethane
Concen: 23.116 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Tgt Ion: 129 Resp: 55110
Ion Ratio Lower Upper
129 100
127 78.3 39.0 116.9

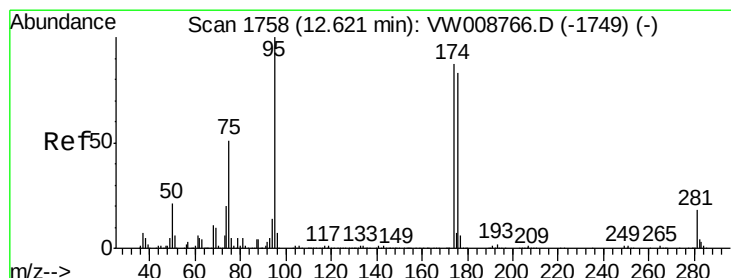
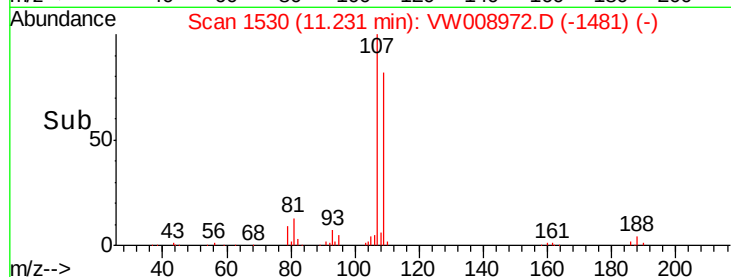
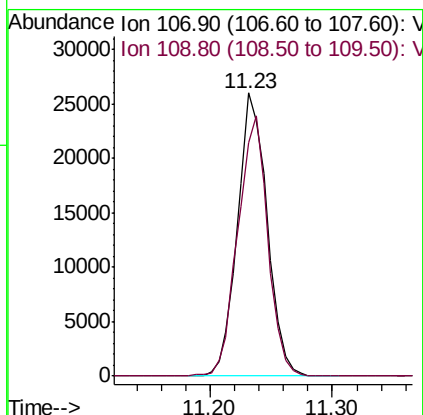
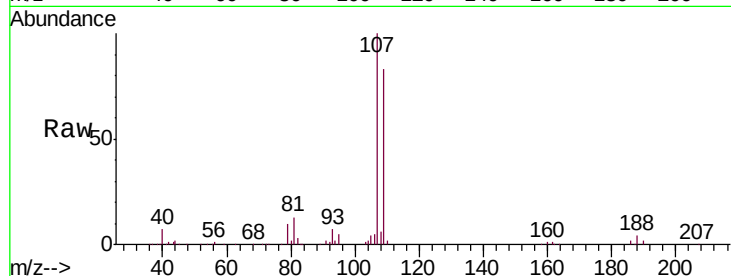




#61
 1,2-Dibromoethane
 Concen: 22.631 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

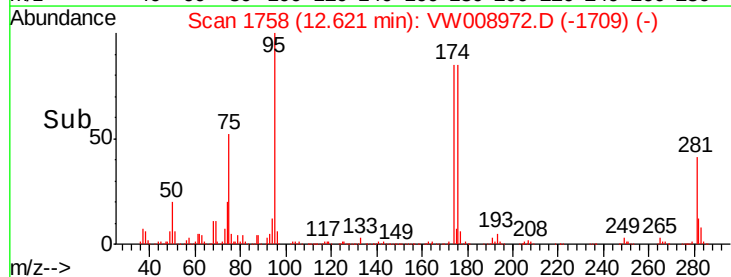
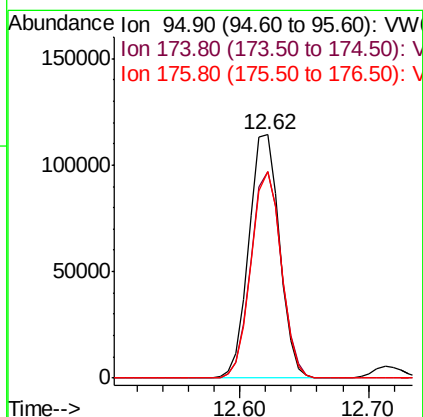
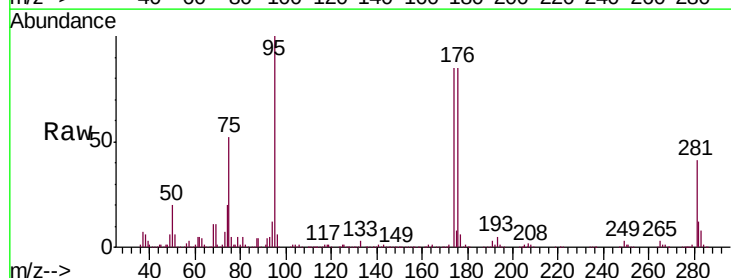
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0305SBSD01

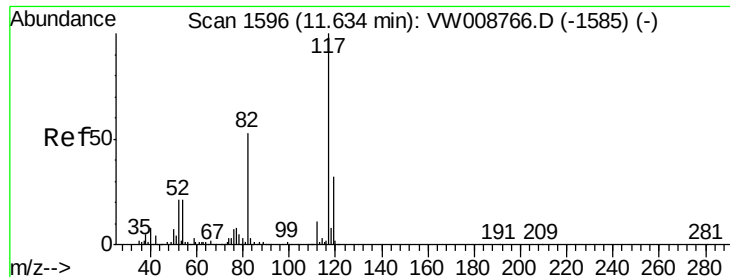
Tgt Ion: 107 Resp: 43784
 Ion Ratio Lower Upper
 107 100
 109 92.2 75.6 113.4



#62
 4-Bromofluorobenzene
 Concen: 52.192 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW008972.D
 Acq: 04 Mar 2019 21:01

Tgt Ion: 95 Resp: 186858
 Ion Ratio Lower Upper
 95 100
 174 84.5 0.0 169.2
 176 83.6 0.0 163.6

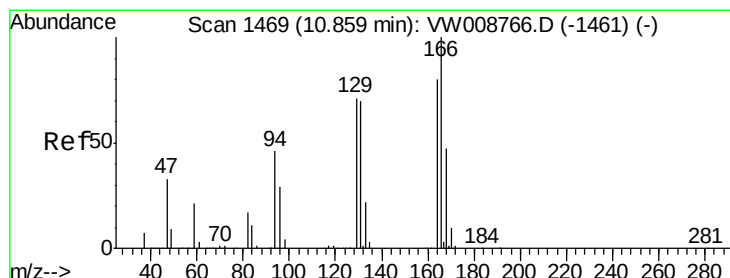
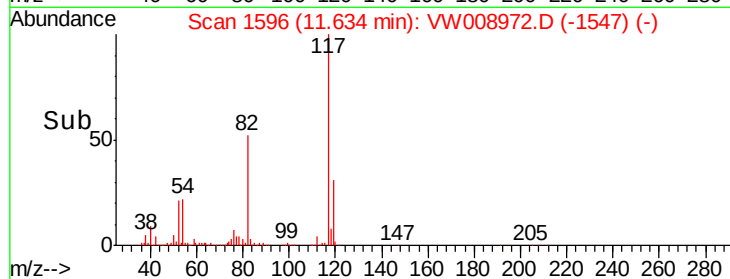
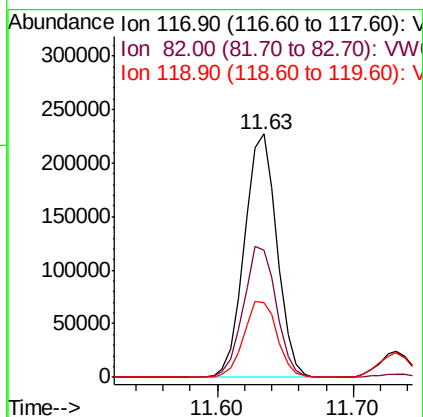
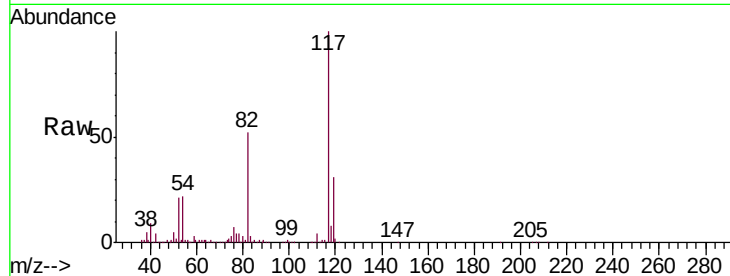




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Instrument :
MSVOA_W
ClientSampleId :
VW0305SBSD01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.2	63.4
119	30.7	25.9	38.9



#64
Tetrachloroethene
Concen: 21.782 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW008972.D
Acq: 04 Mar 2019 21:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.1	99.5	149.3
129	96.8	71.1	106.7
131	91.2	69.8	104.8

