

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082719\
 Data File : VW012217.D
 Acq On : 27 Aug 2019 17:18
 Operator : SY/VA
 Sample : K4551-18MS
 Misc : 5.75G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

Quant Time: Aug 28 06:41:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	243899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	401167	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	337118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	141796	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	170045	58.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.30%	
35) Dibromofluoromethane	7.88	113	137782	57.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.08%	
50) Toluene-d8	10.32	98	539846	55.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.20%	
62) 4-Bromofluorobenzene	12.62	95	176692	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	82940	55.228	ug/l	97
3) Chloromethane	2.21	50	130971	56.291	ug/l	100
4) Vinyl Chloride	2.36	62	160819	56.472	ug/l	100
5) Bromomethane	2.75	94	77570	53.785	ug/l	99
6) Chloroethane	2.91	64	91794	57.140	ug/l	94
7) Trichlorofluoromethane	3.25	101	78034	54.571	ug/l	98
8) Diethyl Ether	3.68	74	81173	59.805	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.06	101	124101	51.057	ug/l	98
10) Methyl Iodide	4.27	142	176147	53.561	ug/l	98
11) Tert butyl alcohol	5.17	59	57168	327.644	ug/l	100
12) 1,1-Dichloroethene	4.04	96	132346	54.098	ug/l	98
13) Acrolein	3.89	56	14010	85.300	ug/l	100
14) Allyl chloride	4.66	41	291929	55.817	ug/l	98
15) Acrylonitrile	5.36	53	193919	288.245	ug/l	99
16) Acetone	4.12	43	175873	237.301	ug/l	98
17) Carbon Disulfide	4.38	76	389145	52.633	ug/l	99
18) Methyl Acetate	4.66	43	333057	181.437	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	237427	60.013	ug/l	99
20) Methylene Chloride	4.91	84	175616	62.680	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	140583	53.588	ug/l	94
22) Diisopropyl ether	6.31	45	545160	56.234	ug/l	93
23) Vinyl Acetate	6.31	43	333646	55.923	ug/l #	77
24) 1,1-Dichloroethane	6.21	63	289407	54.828	ug/l	100
25) 2-Butanone	7.17	43	275282	273.336	ug/l	99
26) 2,2-Dichloropropane	7.17	77	154340	51.659	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	155213	55.376	ug/l	99
28) Bromochloromethane	7.51	49	123112	53.513	ug/l	100
29) Tetrahydrofuran	7.52	42	198913	329.201	ug/l	99
30) Chloroform	7.67	83	261422	54.133	ug/l	99
31) Cyclohexane	7.95	56	251623	48.182	ug/l	99
32) 1,1,1-Trichloroethane	7.87	97	204061	53.415	ug/l	100
36) 1,1-Dichloropropene	8.08	75	208850	50.379	ug/l	100
37) Ethyl Acetate	7.25	43	62519	27.520	ug/l #	83
38) Carbon Tetrachloride	8.07	117	180894	50.415	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	216314	46.447	ug/l	98
40) Benzene	8.32	78	602960	53.266	ug/l	99
41) Methacrylonitrile	7.48	41	75698	56.695	ug/l	97
42) 1,2-Dichloroethane	8.40	62	190828	53.789	ug/l	99
43) Isopropyl Acetate	8.42	43	145046	34.469	ug/l #	91
44) Trichloroethene	9.09	130	140496	51.056	ug/l	99
45) 1,2-Dichloropropane	9.37	63	163011	53.507	ug/l	98
46) Dibromomethane	9.46	93	75097	55.402	ug/l	99
47) Bromodichloromethane	9.65	83	193233	53.564	ug/l	98
48) Methyl methacrylate	9.43	41	148336	74.065	ug/l	98
49) 1,4-Dioxane	9.45	88	25816	1244.091	ug/l	97
51) 4-Methyl-2-Pentanone	10.21	43	624312	291.695	ug/l	99
52) Toluene	10.38	92	392718	57.750	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	196958	53.598	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	235431	53.061	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	104788	54.639	ug/l	97
56) Ethyl methacrylate	10.65	69	83961	30.080	ug/l #	80
57) 1,3-Dichloropropane	10.93	76	201544	55.611	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	414173	289.121	ug/l	100
59) 2-Hexanone	10.97	43	411453	271.695	ug/l	99
60) Dibromochloromethane	11.13	129	115505	54.072	ug/l	98
61) 1,2-Dibromoethane	11.23	107	99645	55.770	ug/l	99
64) Tetrachloroethene	10.86	164	110046	50.350	ug/l	98
65) Chlorobenzene	11.66	112	341908	51.507	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	126834	54.769	ug/l	99
67) Ethyl Benzene	11.73	91	671030	52.476	ug/l	100
68) m/p-Xylenes	11.84	106	475727	103.282	ug/l	100
69) o-Xylene	12.16	106	225891	52.987	ug/l	100
70) Styrene	12.18	104	374274	50.721	ug/l	99
71) Bromoform	12.35	173	64191	55.635	ug/l #	99
73) Isopropylbenzene	12.46	105	610623	57.471	ug/l	99
74) N-amyl acetate	12.27	43	45866	14.288	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	123107	63.201	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	84405m	61.119	ug/l	
77) Bromobenzene	12.74	156	132220	57.522	ug/l	100
78) n-propylbenzene	12.80	91	705871	54.419	ug/l	99
79) 2-Chlorotoluene	12.89	91	406699	55.227	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	491832	55.398	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	39650	62.950	ug/l	99
82) 4-Chlorotoluene	12.99	91	416676	54.038	ug/l	100
83) tert-Butylbenzene	13.21	119	419484	55.778	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	487621	54.676	ug/l	100
85) sec-Butylbenzene	13.38	105	556482	51.648	ug/l	99
86) p-Isopropyltoluene	13.50	119	495102	51.454	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	227089	50.509	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	226074	50.642	ug/l	100
89) n-Butylbenzene	13.82	91	443723	46.372	ug/l	99
90) Hexachloroethane	14.09	117	86305	51.122	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	205094	52.000	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	20548	62.574	ug/l	97

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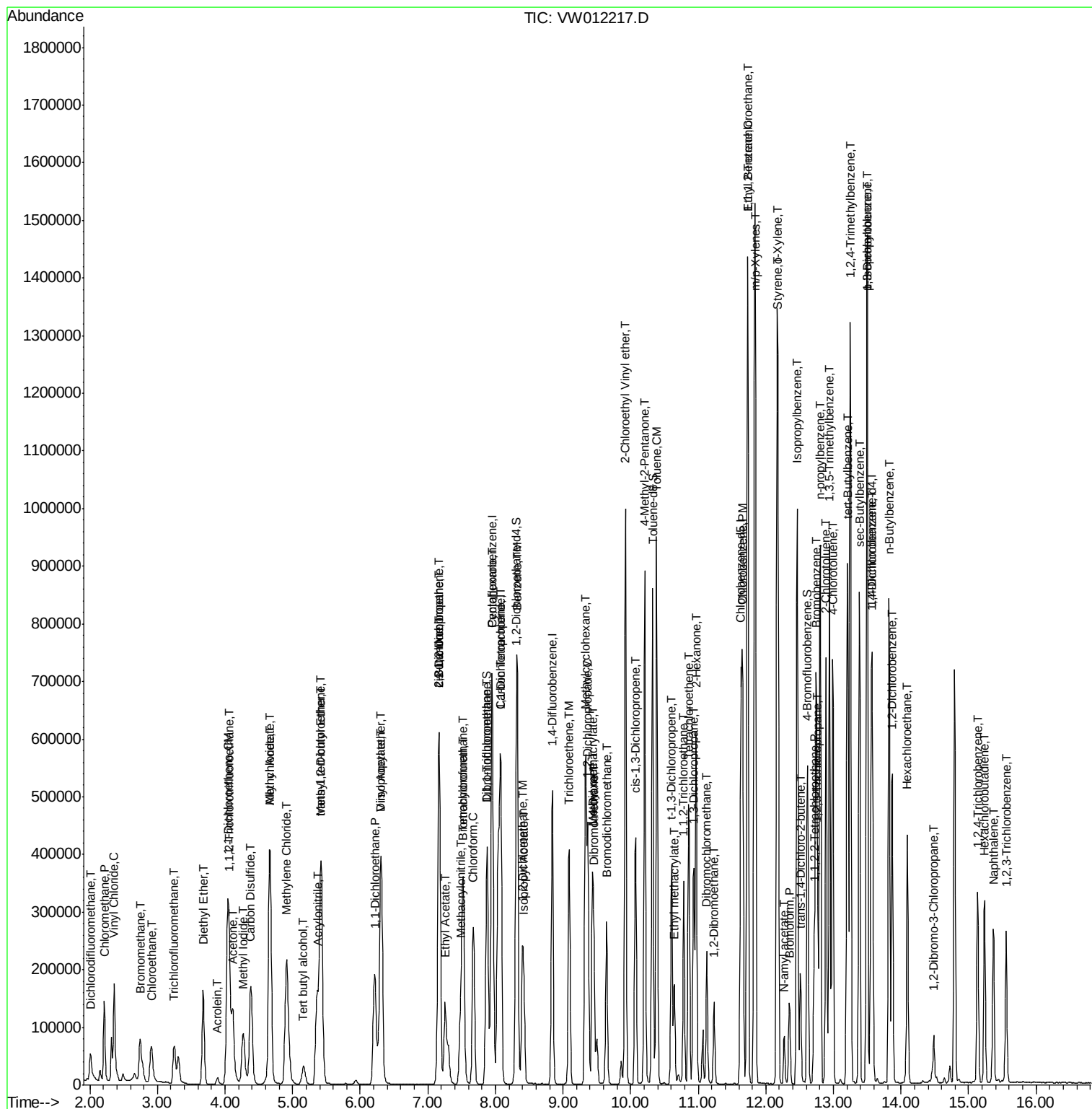
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	105814	38.822	ug/l	98
94) Hexachlorobutadiene	15.24	225	60547	33.642	ug/l	99
95) Naphthalene	15.36	128	218596	41.660	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	85913	36.127	ug/l	100

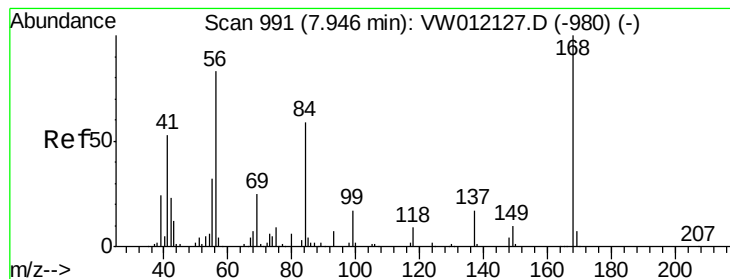
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

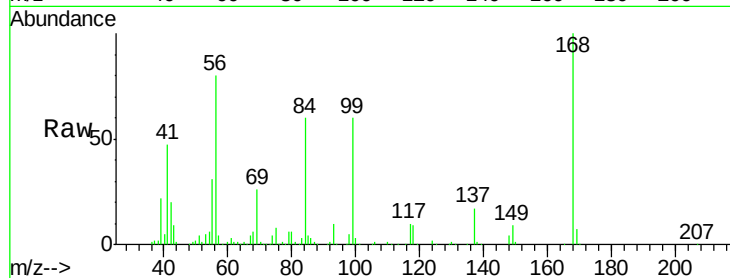
S402-K1-1.0-1.5-082619MS

Tot Ion:168 Resp: 243899

Ion Ratio Lower Upper

168 100

99 59.6 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

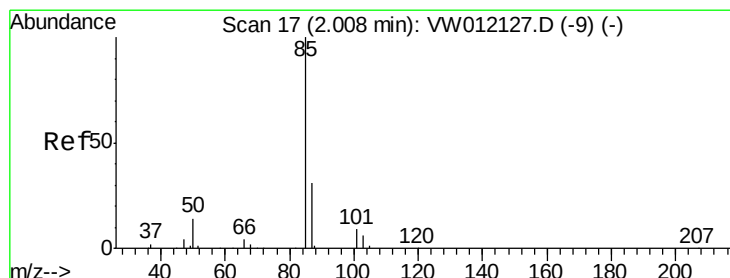
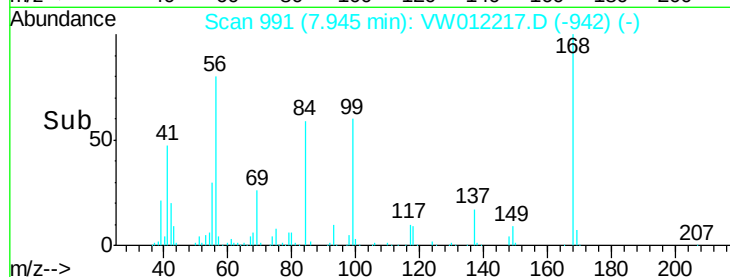
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 55.228 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW012217.D

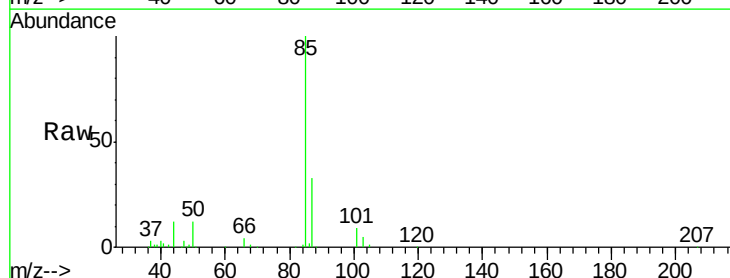
Acq: 27 Aug 2019 17:18

Tgt Ion: 85 Resp: 82940

Ion Ratio Lower Upper

85 100

87 32.9 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

30000

25000

20000

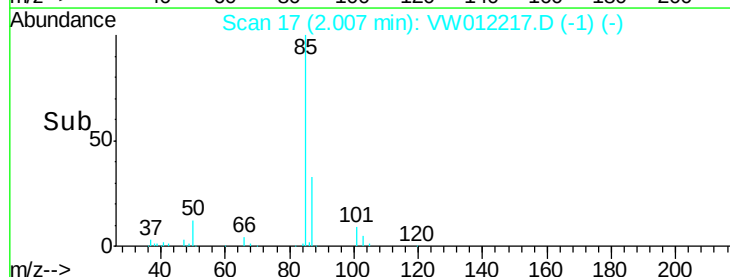
15000

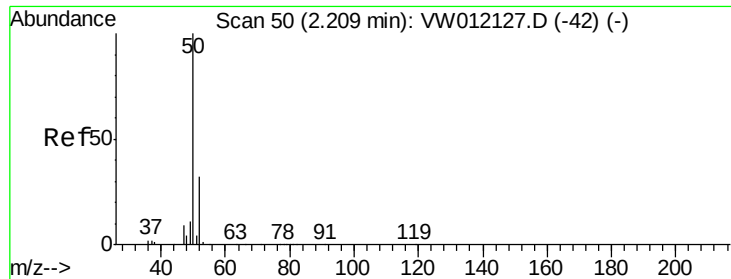
10000

5000

0

Time--> 2.00 2.20





#3

Chloromethane

Concen: 56.291 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

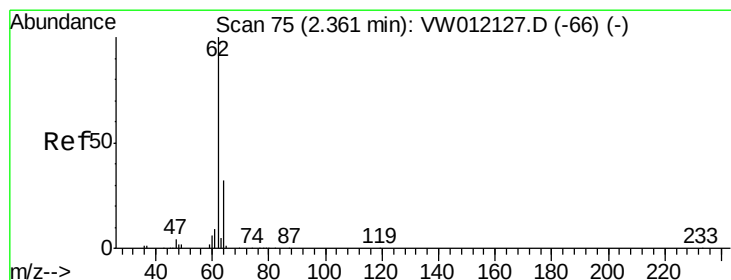
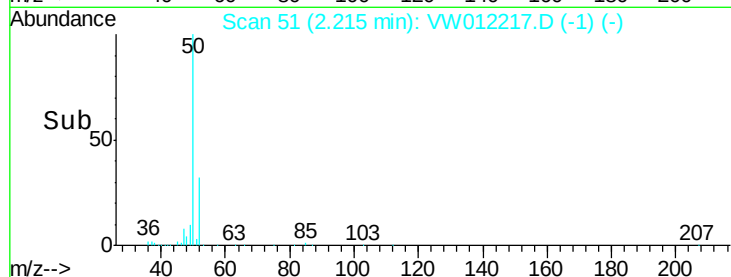
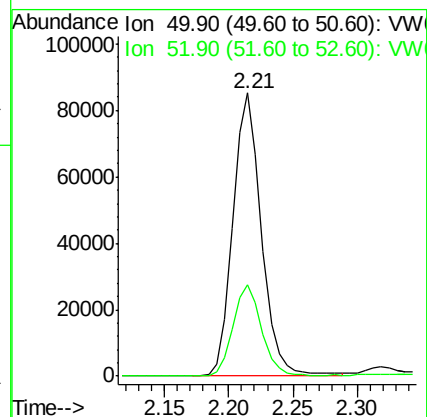
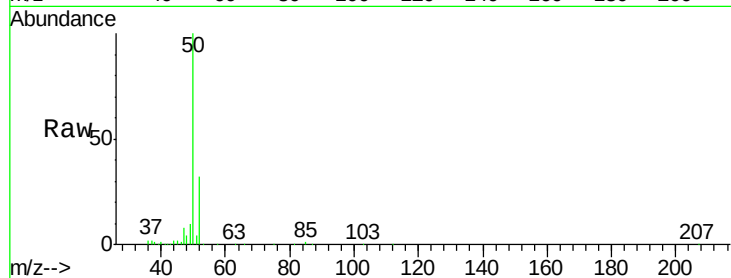
S402-K1-1.0-1.5-082619MS

Tot Ion: 50 Resp: 130971

Ion Ratio Lower Upper

50 100

52 32.2 25.5 38.3



#4

Vinyl Chloride

Concen: 56.472 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012217.D

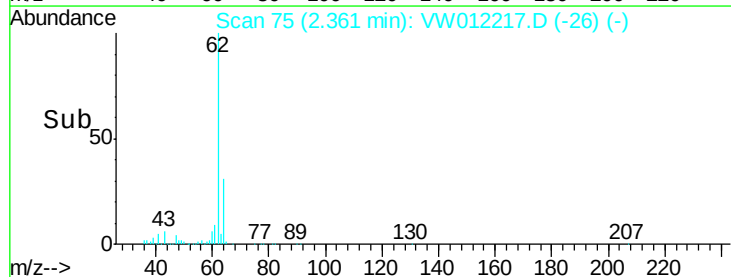
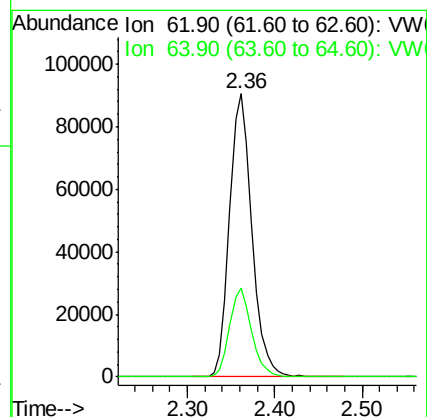
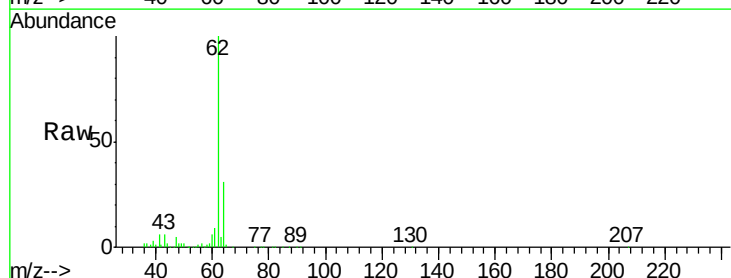
Acq: 27 Aug 2019 17:18

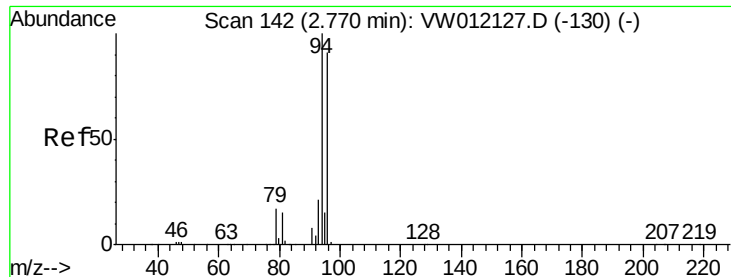
Tgt Ion: 62 Resp: 160819

Ion Ratio Lower Upper

62 100

64 31.3 25.3 37.9





#5

Bromomethane

Concen: 53.785 ug/l

RT: 2.75 min Scan# 138

Delta R.T. -0.02 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

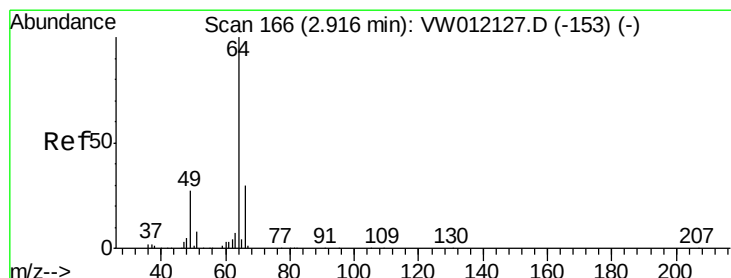
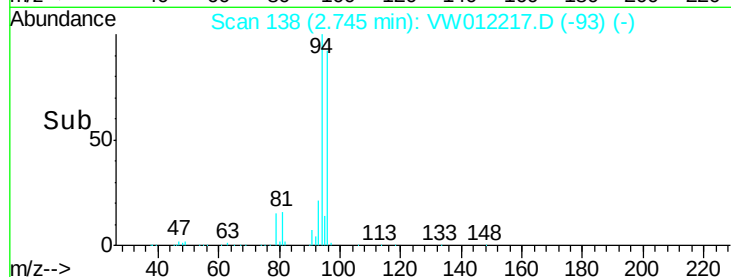
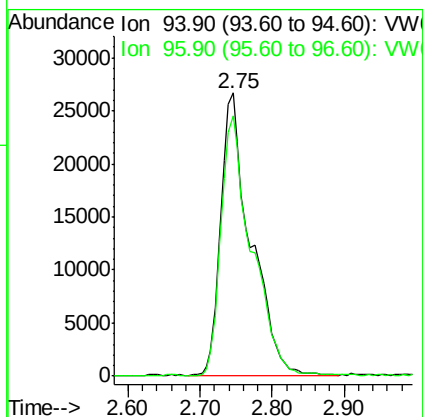
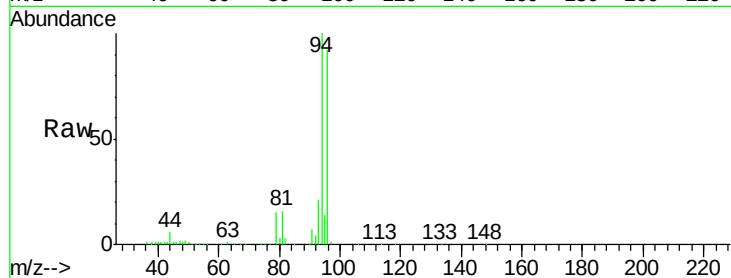
S402-K1-1.0-1.5-082619MS

Tot Ion: 94 Resp: 77570

Ion Ratio Lower Upper

94 100

96 92.1 72.9 109.3



#6

Chloroethane

Concen: 57.140 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW012217.D

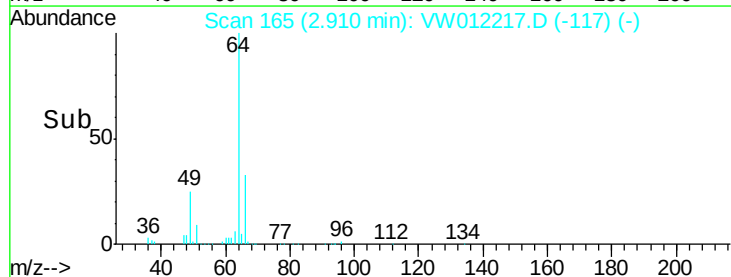
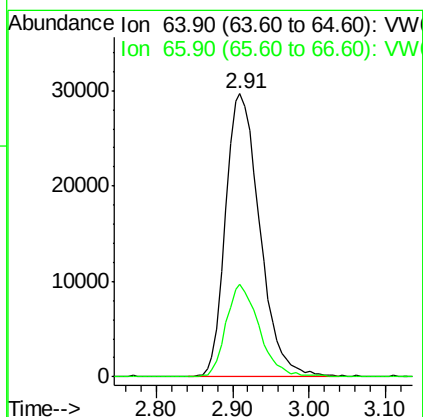
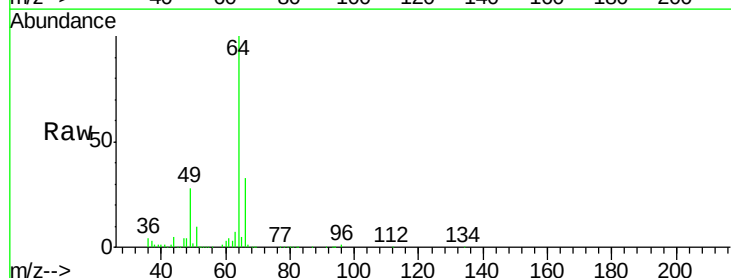
Acq: 27 Aug 2019 17:18

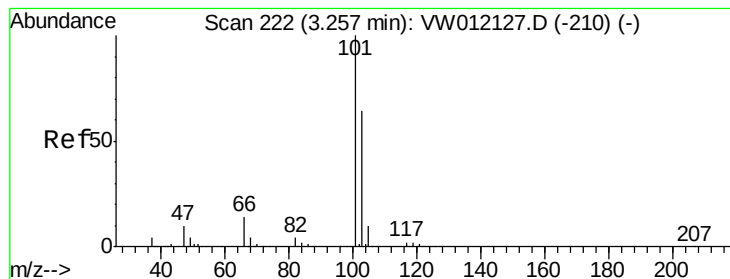
Tgt Ion: 64 Resp: 91794

Ion Ratio Lower Upper

64 100

66 32.8 23.8 35.8



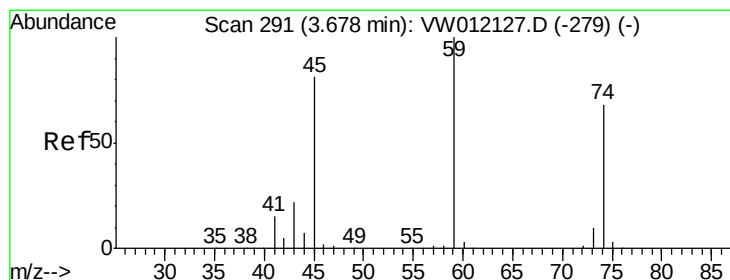
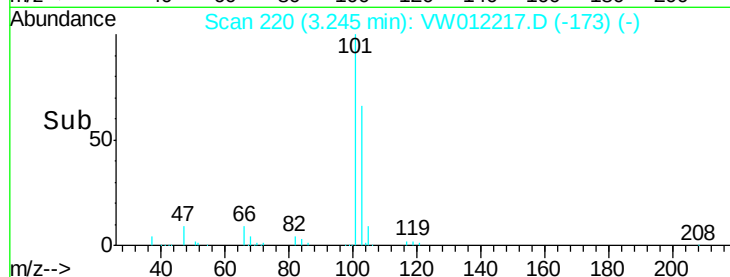
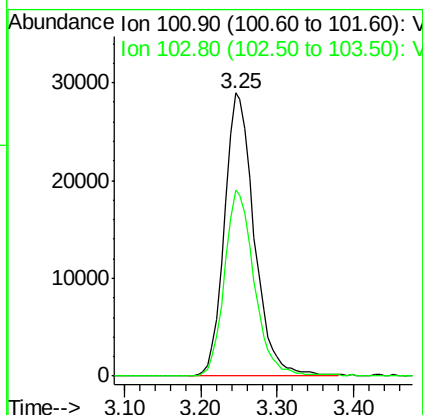
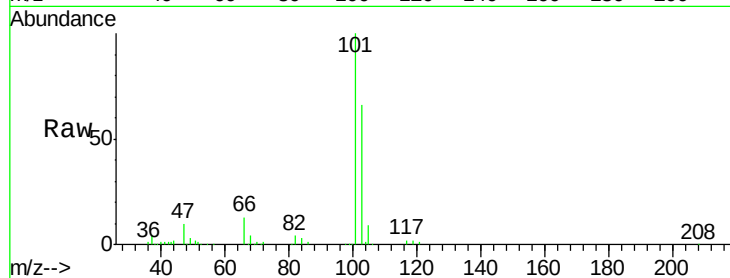


#7

Trichlorofluoromethane
 Concen: 54.571 ug/l
 RT: 3.25 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VW012217.D
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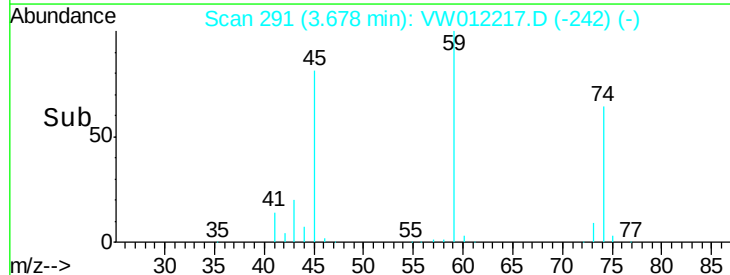
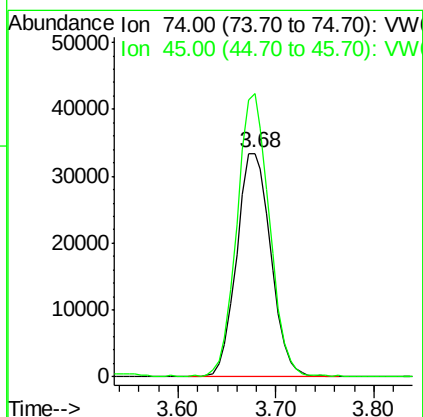
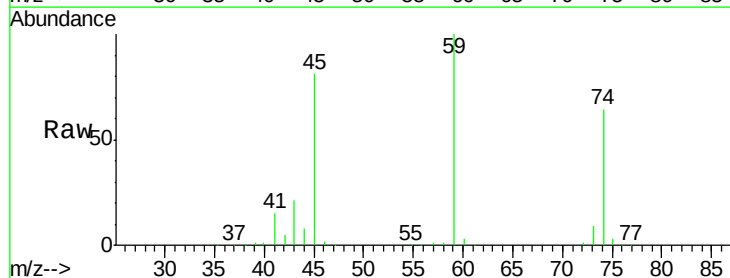
Tot Ion:101 Resp: 78034
 Ion Ratio Lower Upper
 101 100
 103 65.6 51.2 76.8

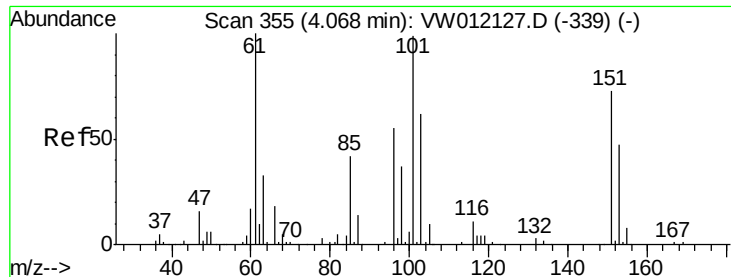


#8

Diethyl Ether
 Concen: 59.805 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion: 74 Resp: 81173
 Ion Ratio Lower Upper
 74 100
 45 120.4 59.2 177.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.057 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW012217.D

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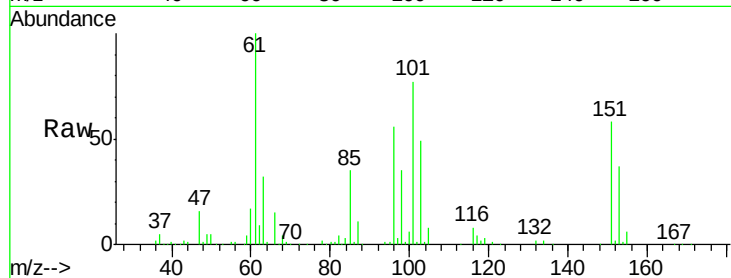
Tot Ion:101 Resp: 124101

Ion Ratio Lower Upper

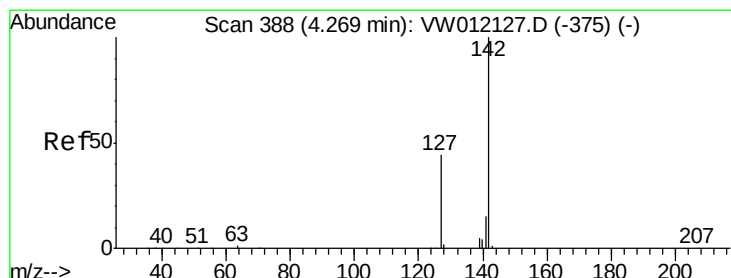
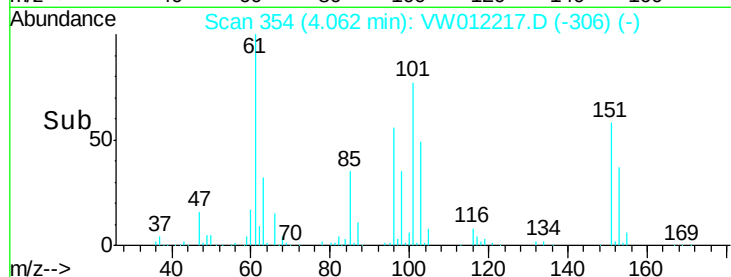
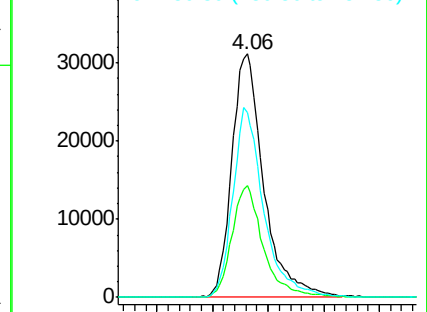
101 100

85 45.1 35.8 53.6

151 75.3 58.6 87.8



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: 53.561 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

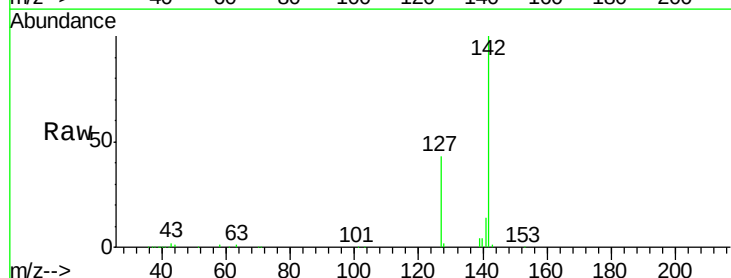
Tgt Ion:142 Resp: 176147

Ion Ratio Lower Upper

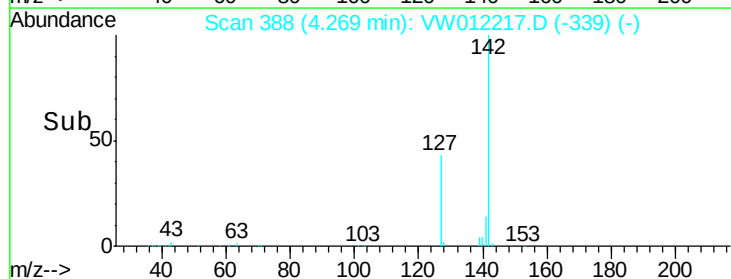
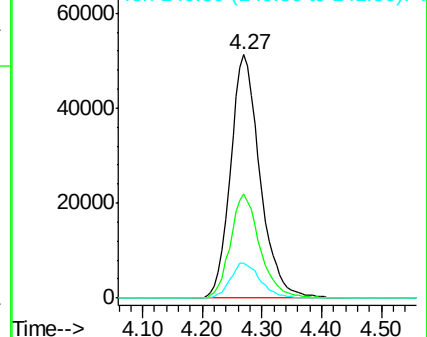
142 100

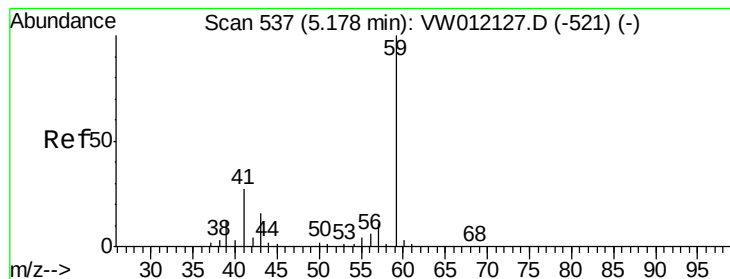
127 42.8 35.5 53.3

141 14.9 11.8 17.8



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



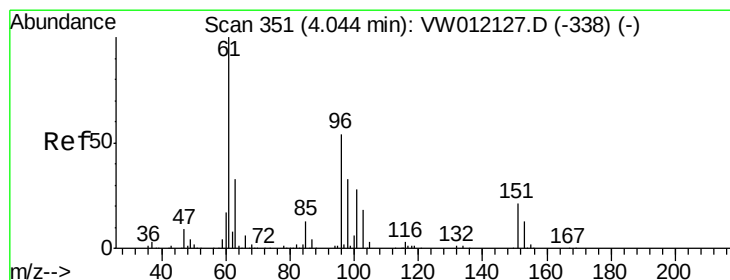
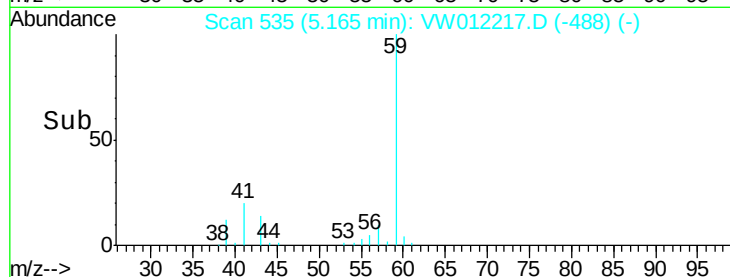
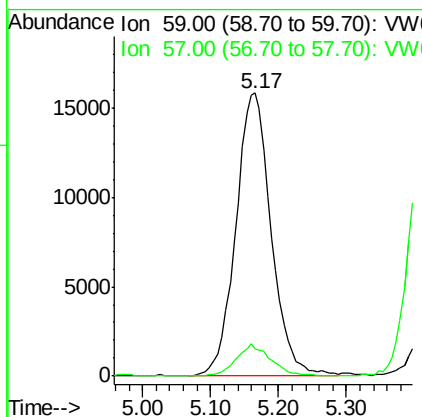
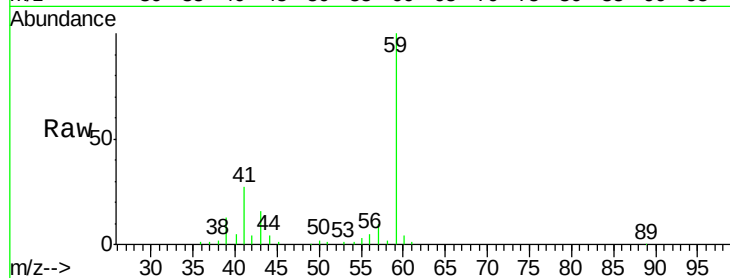


#11

Tert butyl alcohol
 Concen: 327.644 ug/l
 RT: 5.17 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

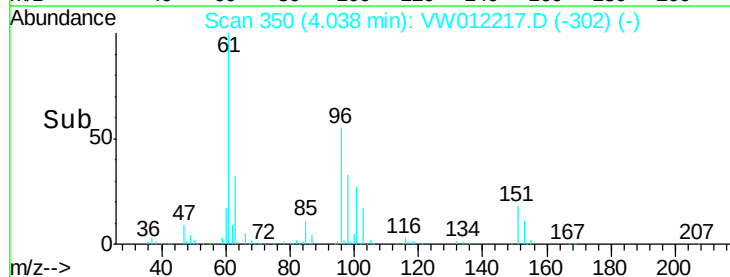
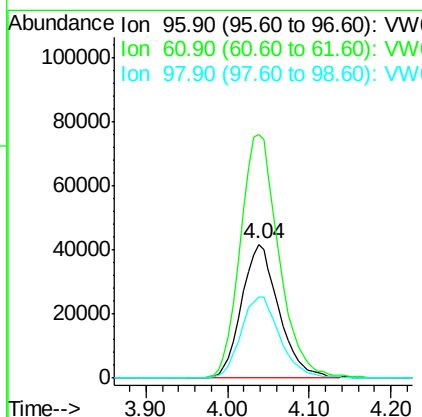
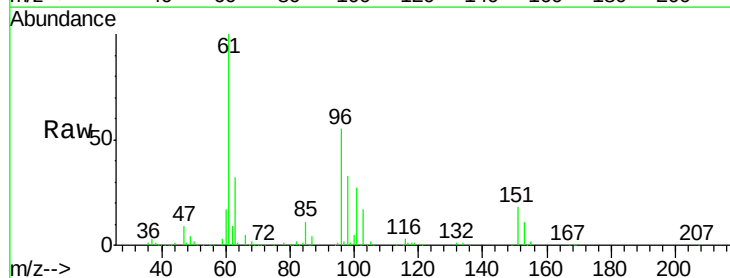
Tot Ion: 59 Resp: 57168
 Ion Ratio Lower Upper
 59 100
 57 11.1 9.0 13.4

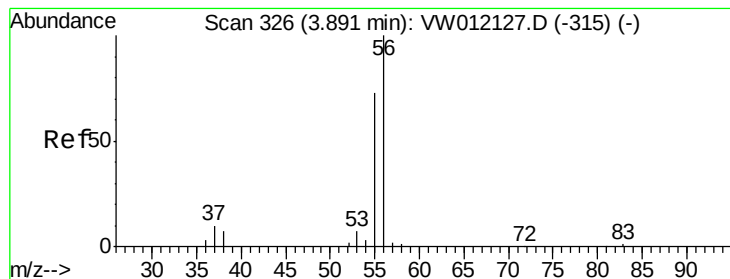


#12

1,1-Dichloroethene
 Concen: 54.098 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion: 96 Resp: 132346
 Ion Ratio Lower Upper
 96 100
 61 182.3 149.1 223.7
 98 61.0 49.4 74.2





#13

Acrolein

Concen: 85.300 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

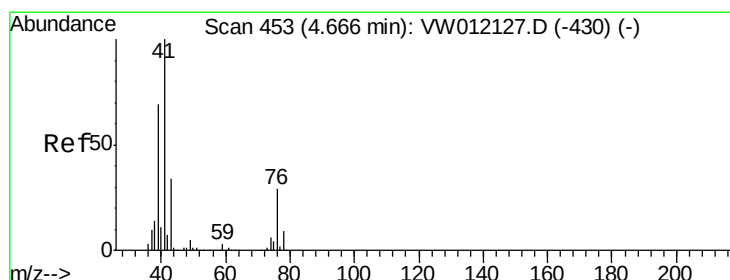
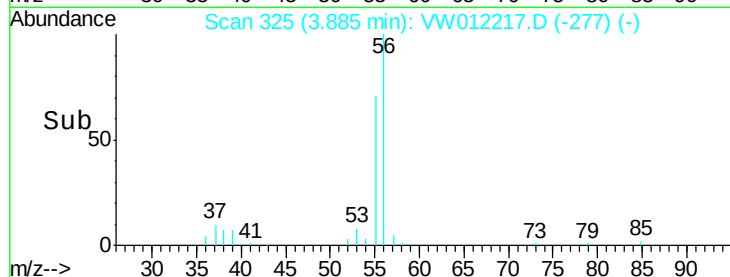
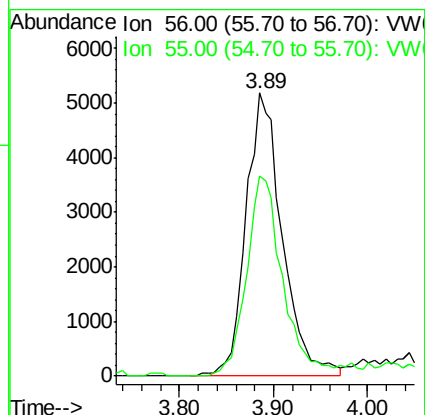
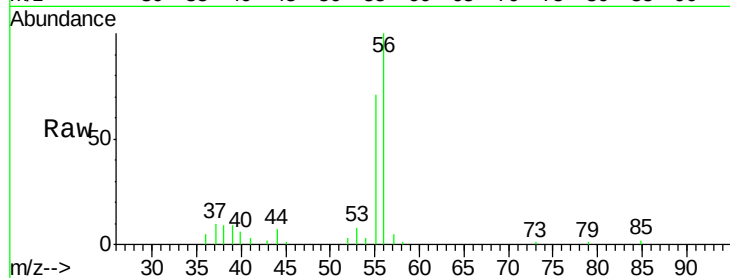
S402-K1-1.0-1.5-082619MS

Tot Ion: 56 Resp: 14010

Ion Ratio Lower Upper

56 100

55 70.1 55.8 83.8



#14

Allyl chloride

Concen: 55.817 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

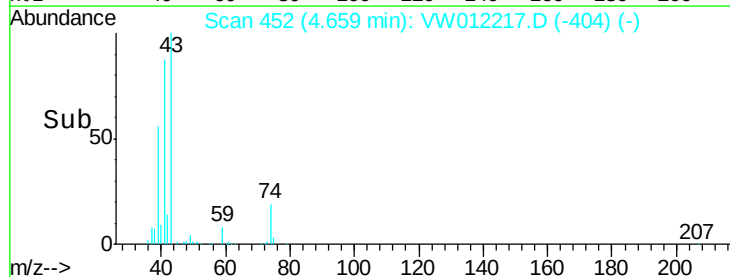
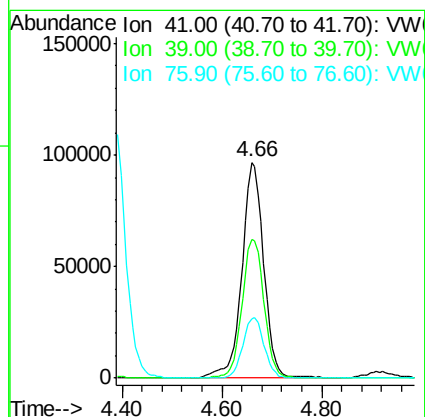
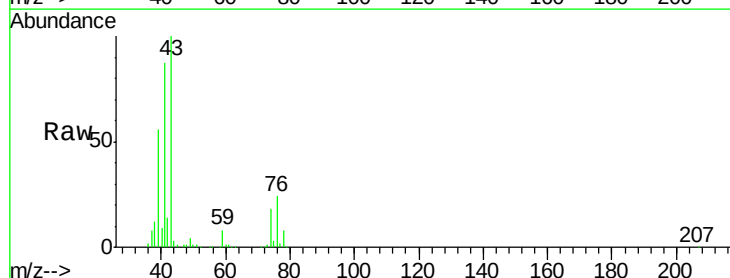
Tgt Ion: 41 Resp: 291929

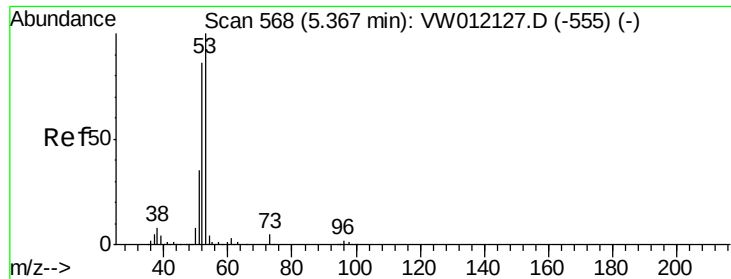
Ion Ratio Lower Upper

41 100

39 65.0 53.4 80.2

76 27.1 22.1 33.1





#15

Acrylonitrile

Concen: 288.245 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

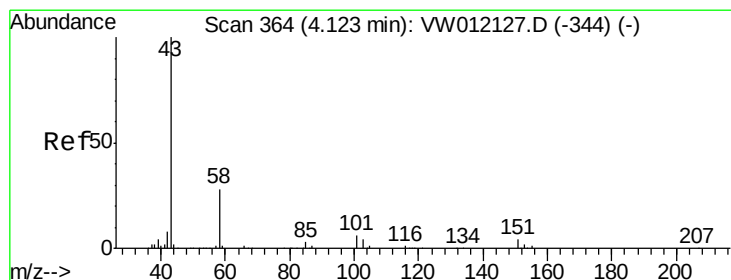
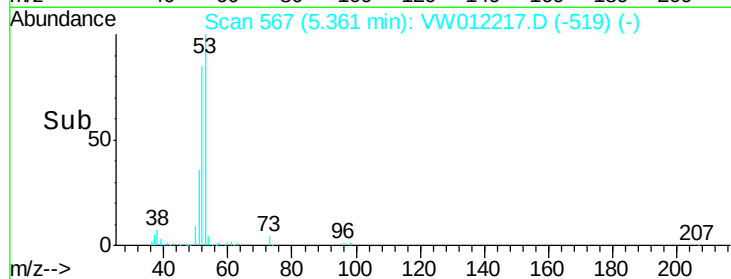
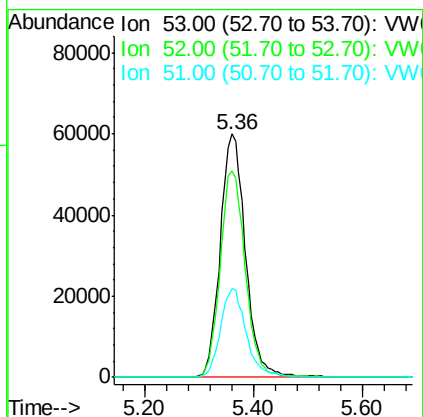
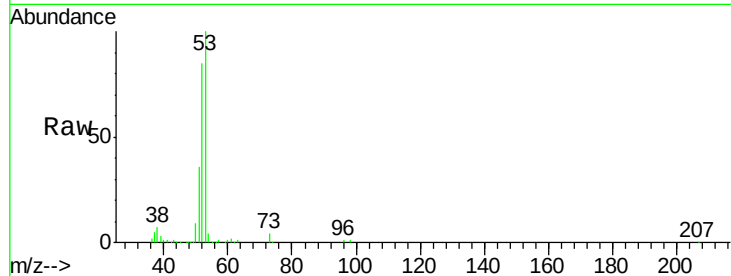
Tot Ion: 53 Resp: 193919

Ion Ratio Lower Upper

53 100

52 83.9 66.7 100.1

51 37.1 30.1 45.1



#16

Acetone

Concen: 237.301 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW012217.D

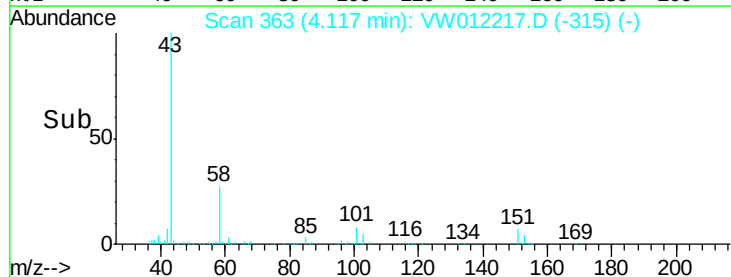
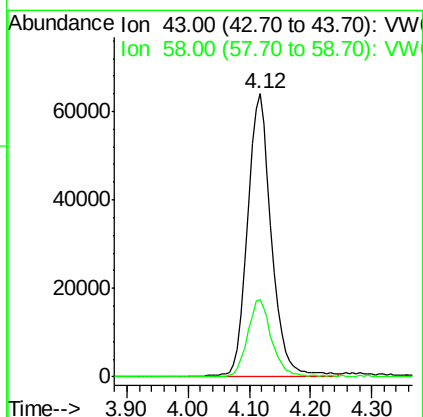
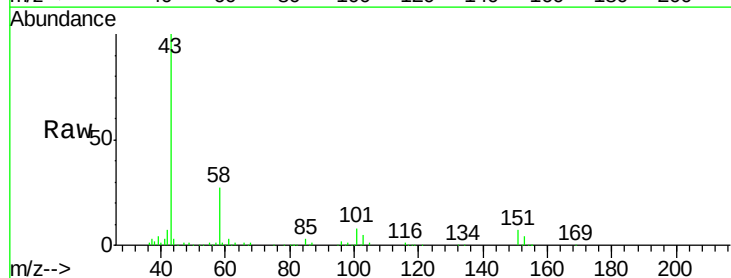
Acq: 27 Aug 2019 17:18

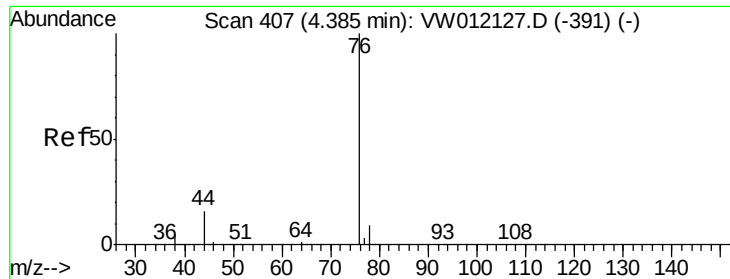
Tgt Ion: 43 Resp: 175873

Ion Ratio Lower Upper

43 100

58 27.0 22.4 33.6

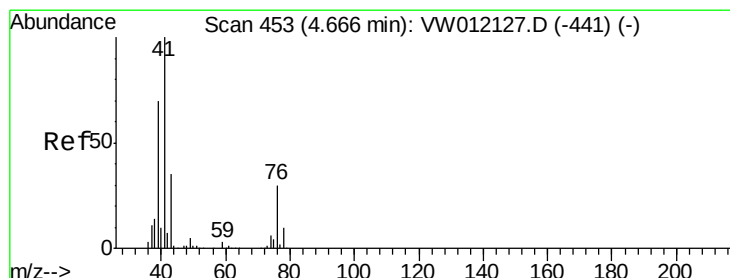
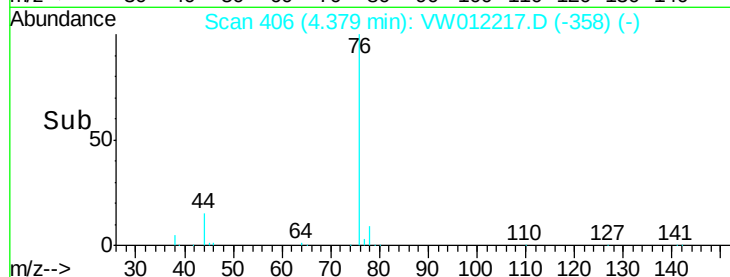
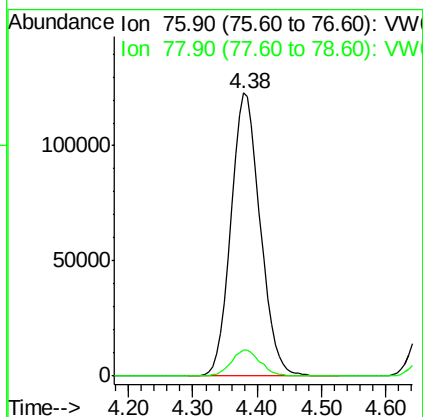
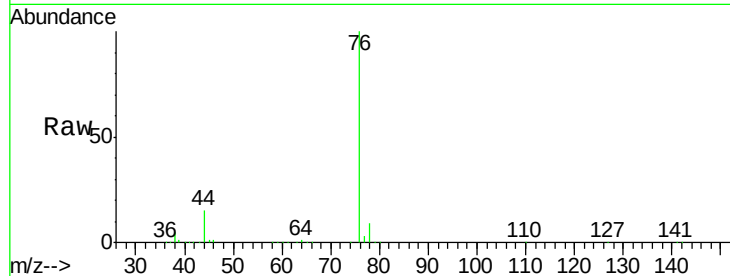




#17
Carbon Disulfide
Concen: 52.633 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

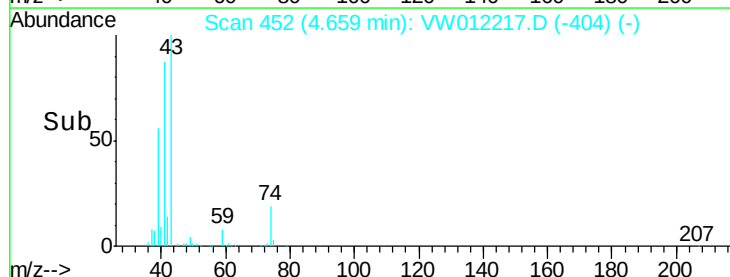
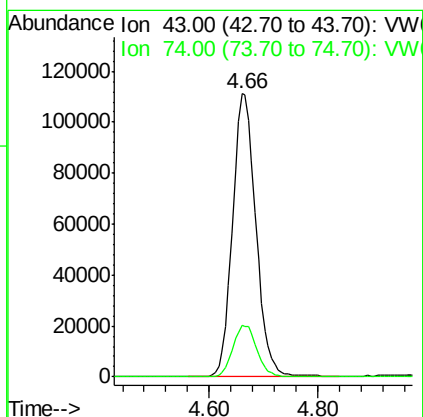
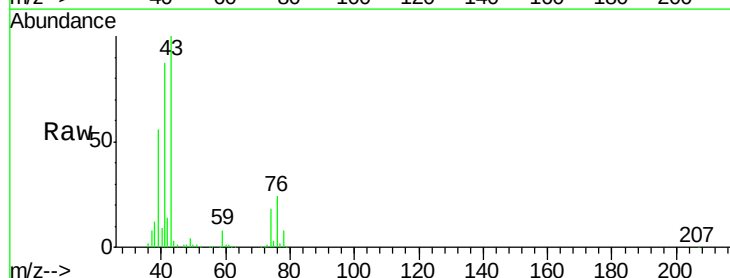
Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

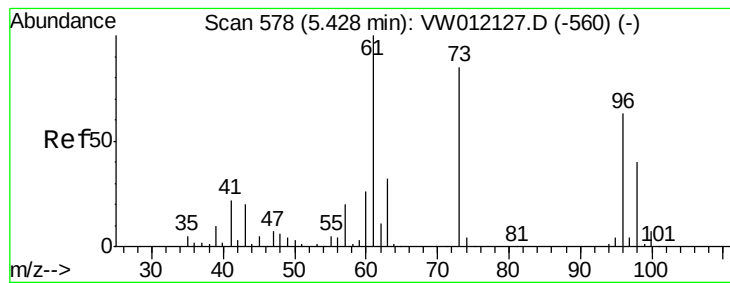
Tot Ion: 76 Resp: 389145
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9



#18
Methyl Acetate
Concen: 181.437 ug/l
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion: 43 Resp: 333057
Ion Ratio Lower Upper
43 100
74 18.8 15.7 23.5





#19

Methyl tert-butyl Ether

Concen: 60.013 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

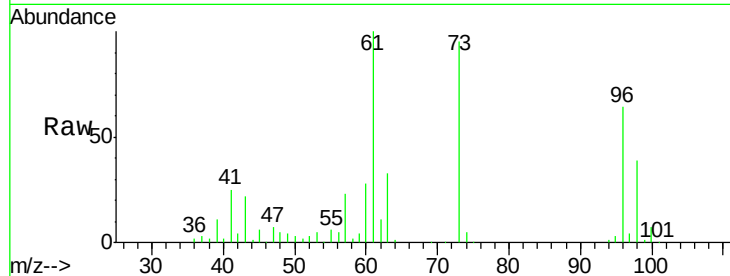
S402-K1-1.0-1.5-082619MS

Tot Ion: 73 Resp: 237427

Ion Ratio Lower Upper

73 100

57 24.0 18.9 28.3



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.42

60000

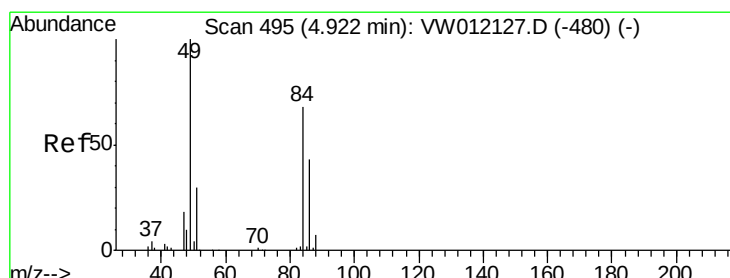
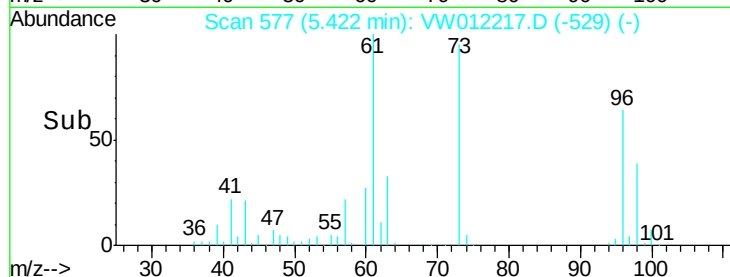
40000

20000

0

Time-->

5.30 5.40 5.50 5.60



#20

Methylene Chloride

Concen: 62.680 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Tgt Ion: 84 Resp: 175616

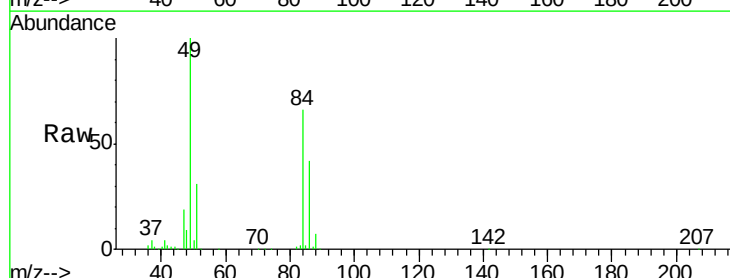
Ion Ratio Lower Upper

84 100

49 151.0 117.8 176.8

51 46.7 35.6 53.4

86 63.1 51.2 76.8



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

100000

80000

60000

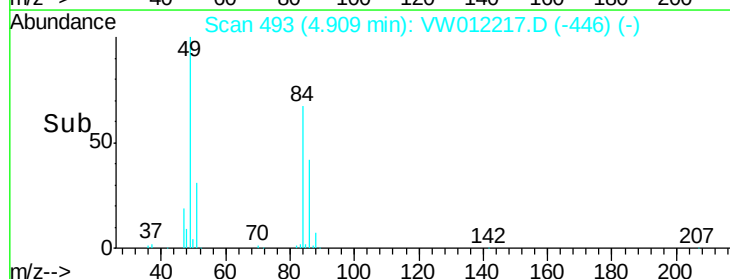
40000

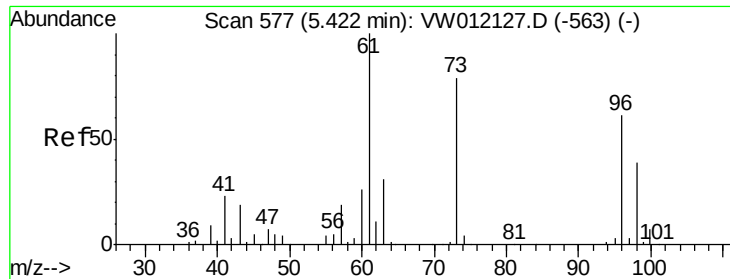
20000

0

Time-->

4.70 4.80 4.90 5.00 5.10





#21

trans-1,2-Dichloroethene

Concen: 53.588 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

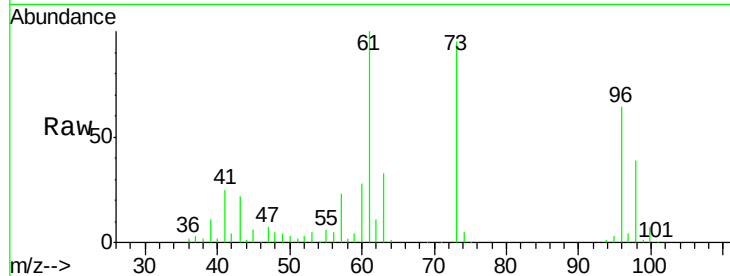
Tot Ion: 96 Resp: 140583

Ion Ratio Lower Upper

96 100

61 155.7 131.4 197.0

98 60.7 51.4 77.0

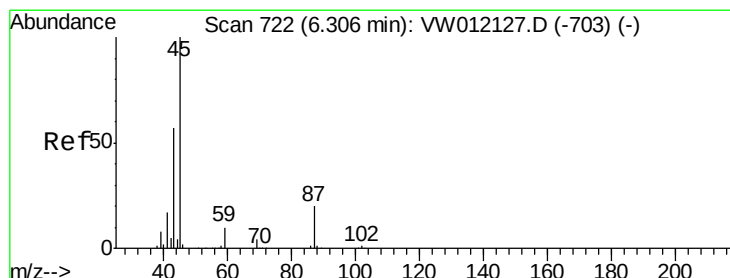
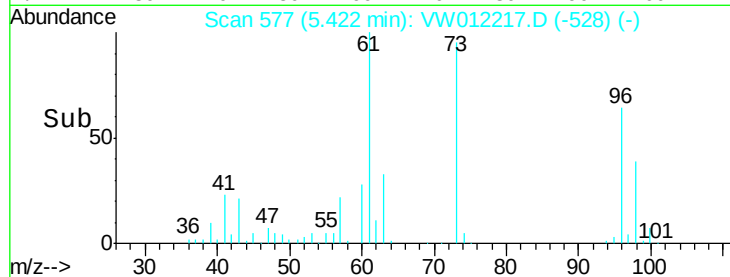
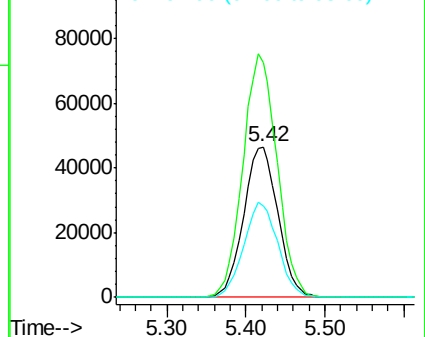


Abundance

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



#22

Diisopropyl ether

Concen: 56.234 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Tgt Ion: 45 Resp: 545160

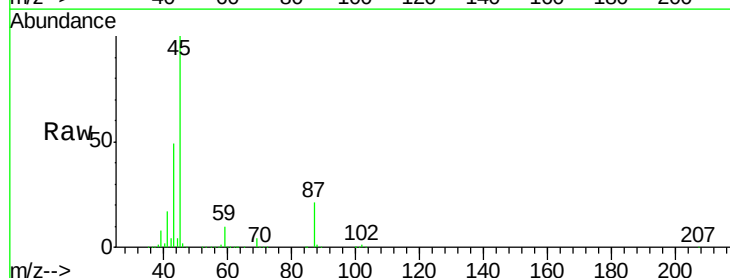
Ion Ratio Lower Upper

45 100

43 49.0 45.5 68.3

87 20.7 16.1 24.1

59 10.2 8.2 12.2



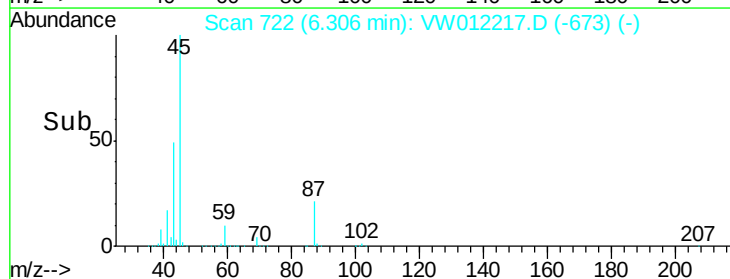
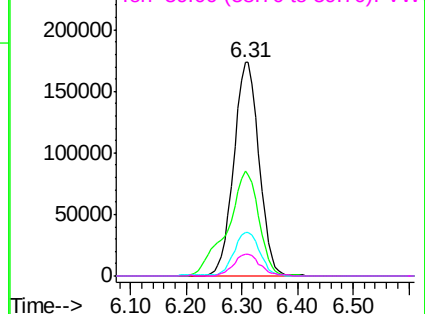
Abundance

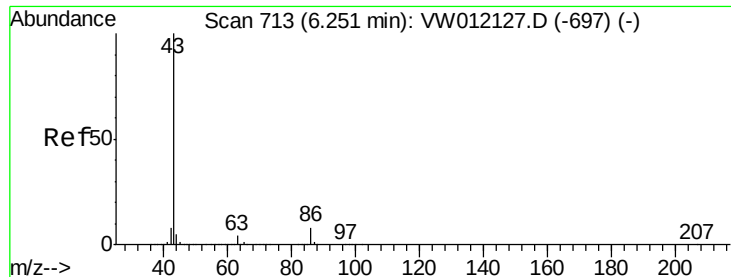
Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 55.923 ug/l

RT: 6.31 min Scan# 722

Delta R.T. 0.05 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

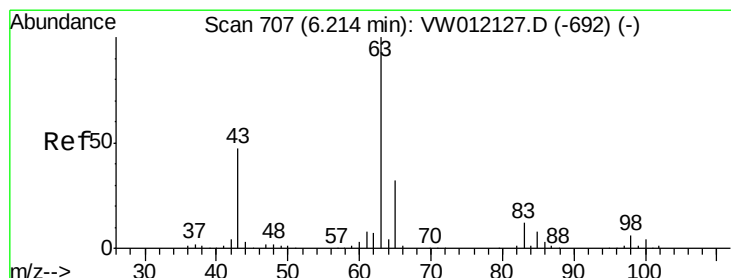
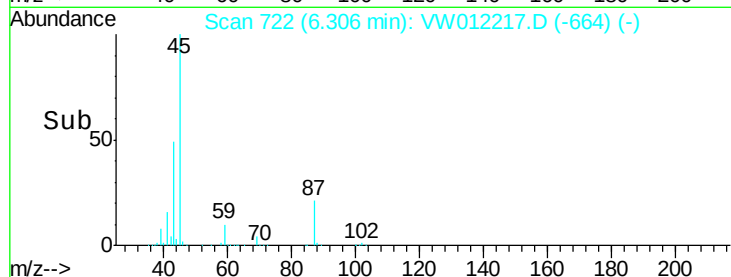
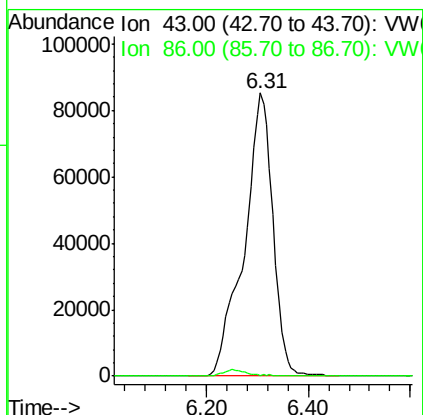
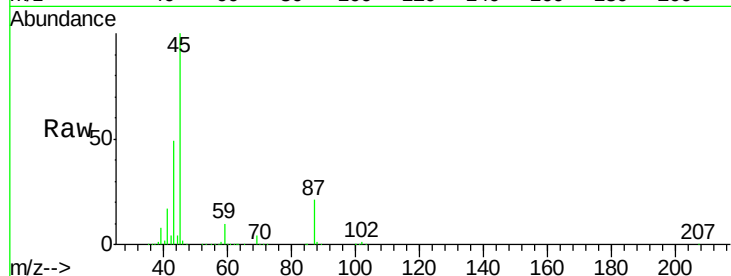
S402-K1-1.0-1.5-082619MS

Tot Ion: 43 Resp: 333646

Ion Ratio Lower Upper

43 100

86 0.0 6.5 9.7#



#24

1,1-Dichloroethane

Concen: 54.828 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

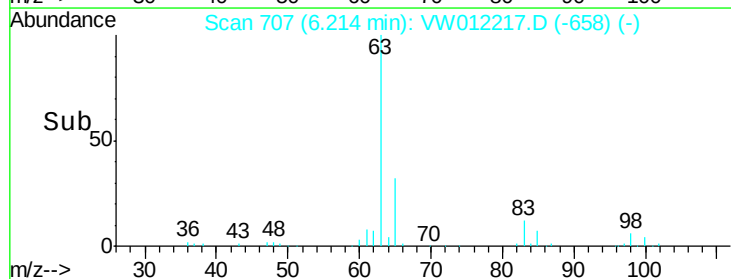
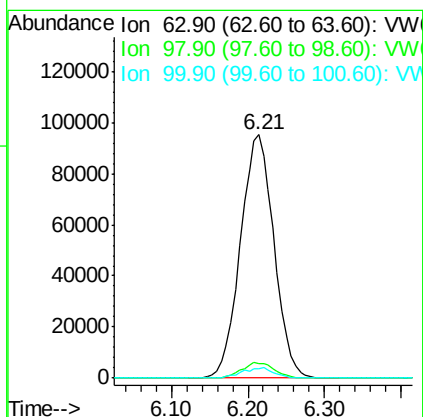
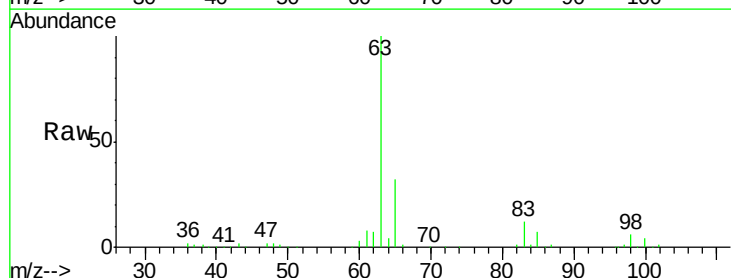
Tgt Ion: 63 Resp: 289407

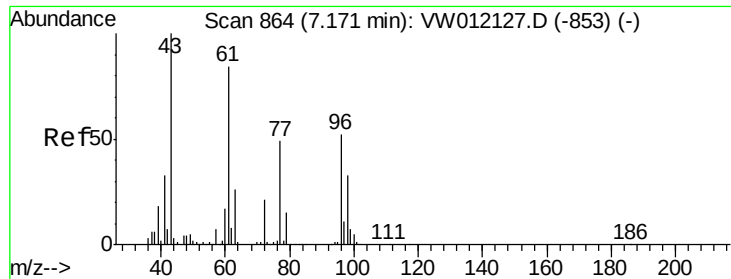
Ion Ratio Lower Upper

63 100

98 6.2 3.0 9.2

100 3.9 2.0 6.0





#25

2-Butanone

Concen: 273.336 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

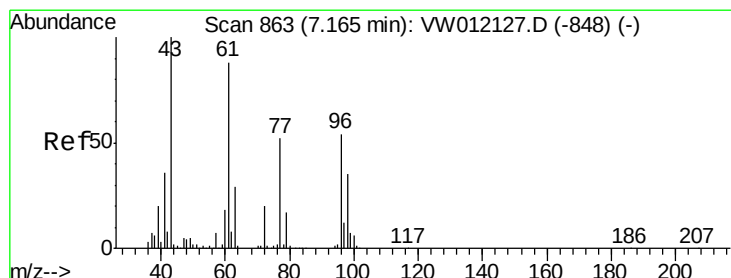
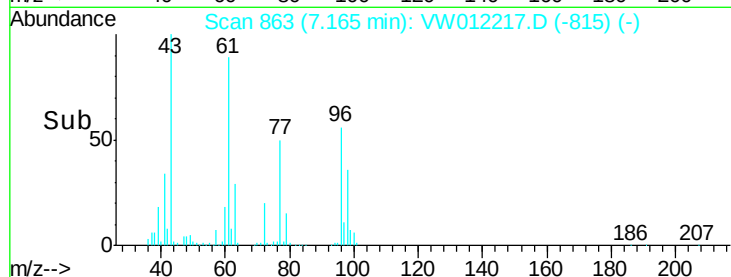
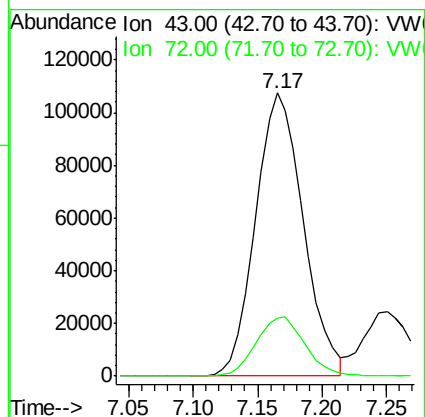
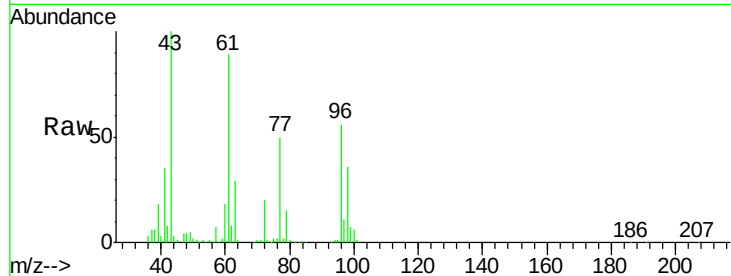
S402-K1-1.0-1.5-082619MS

Tot Ion: 43 Resp: 275282

Ion Ratio Lower Upper

43 100

72 20.3 16.6 24.8



#26

2,2-Dichloropropane

Concen: 51.659 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW012217.D

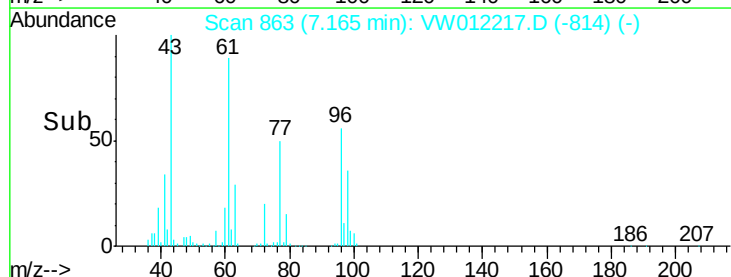
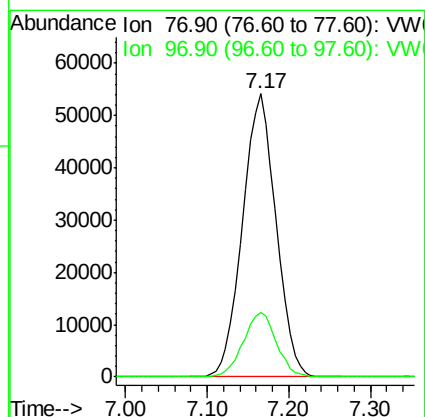
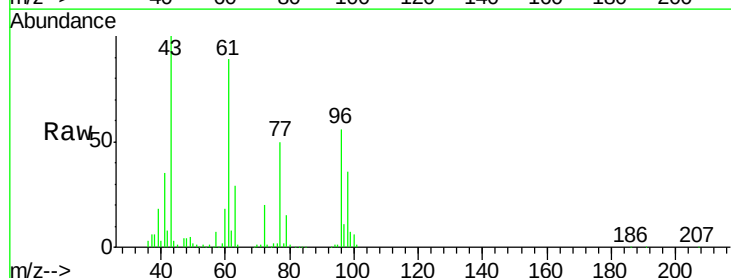
Acq: 27 Aug 2019 17:18

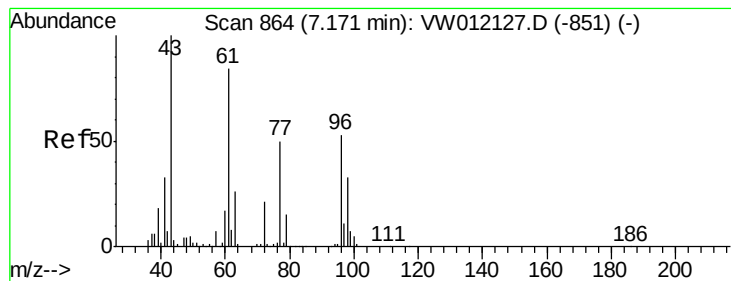
Tgt Ion: 77 Resp: 154340

Ion Ratio Lower Upper

77 100

97 22.6 11.1 33.1



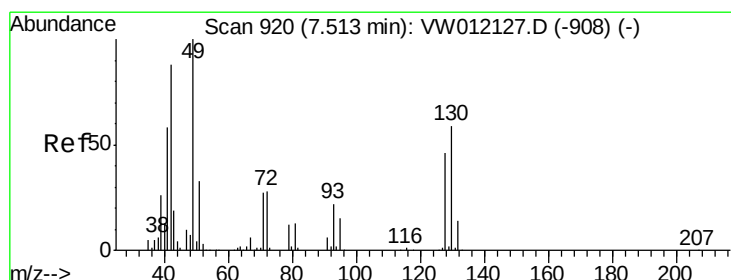
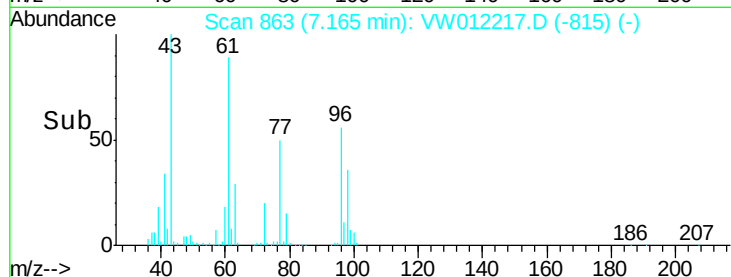
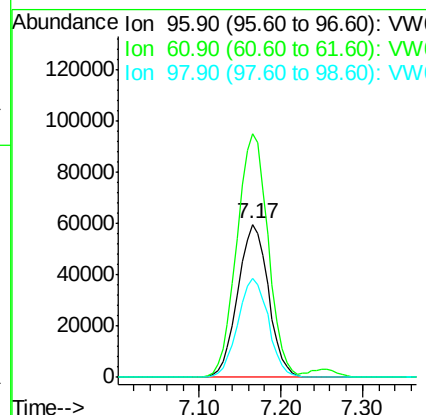
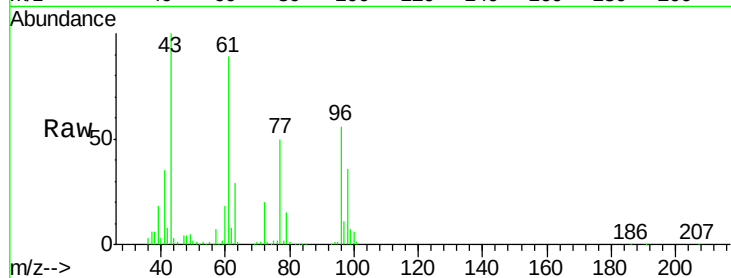


#27

cis-1,2-Dichloroethene
 Concen: 55.376 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

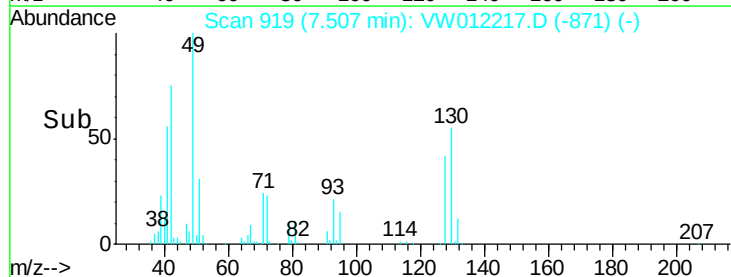
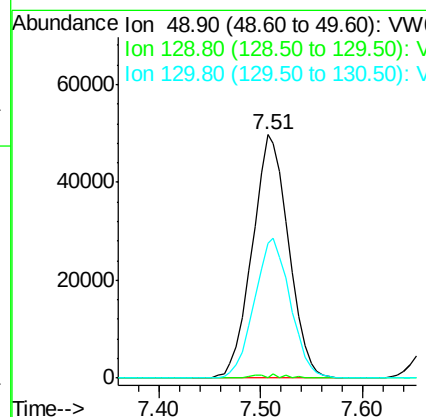
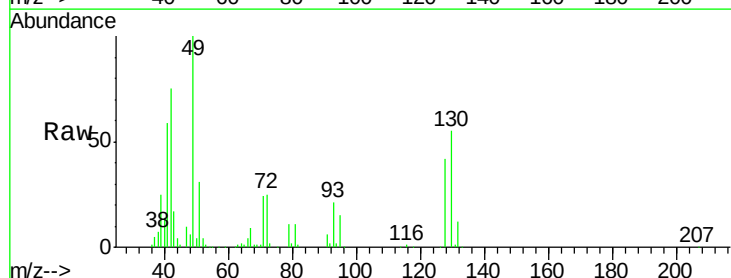
Tot Ion: 96 Resp: 155213
 Ion Ratio Lower Upper
 96 100
 61 162.6 0.0 326.6
 98 64.6 0.0 127.4

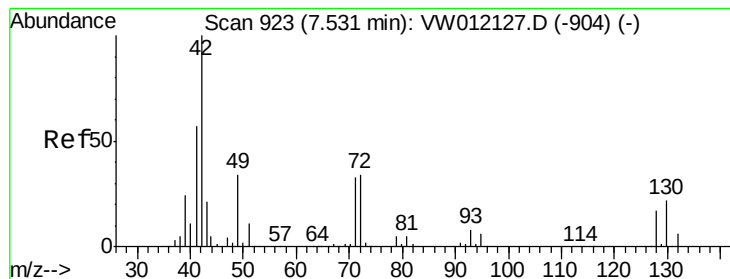


#28

Bromochloromethane
 Concen: 53.513 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion: 49 Resp: 123112
 Ion Ratio Lower Upper
 49 100
 129 0.6 0.0 1.4
 130 57.0 45.5 68.3





#29

Tetrahydrofuran

Concen: 329.201 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

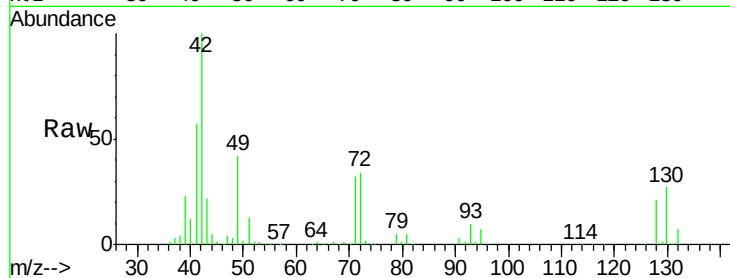
Tot Ion: 42 Resp: 198913

Ion Ratio Lower Upper

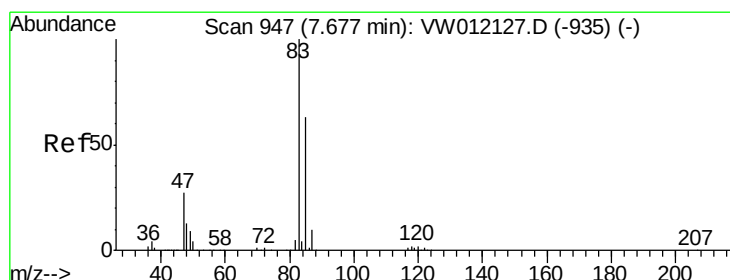
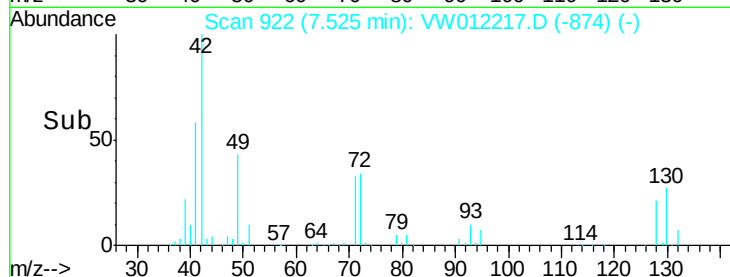
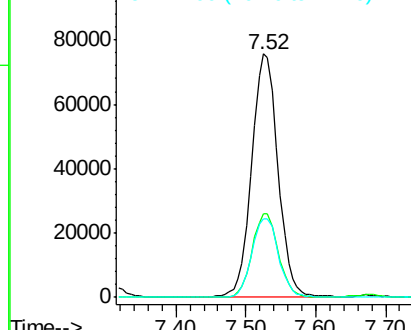
42 100

72 34.1 27.3 40.9

71 32.9 25.5 38.3



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#30

Chloroform

Concen: 54.133 ug/l

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW012217.D

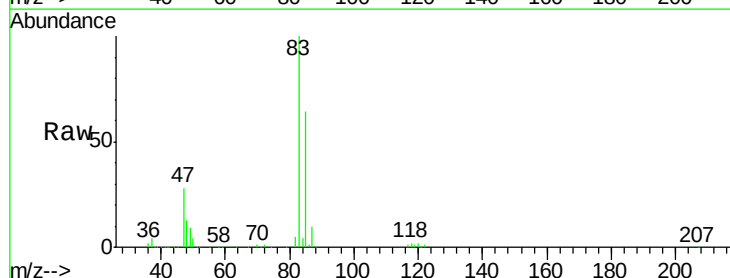
Acq: 27 Aug 2019 17:18

Tgt Ion: 83 Resp: 261422

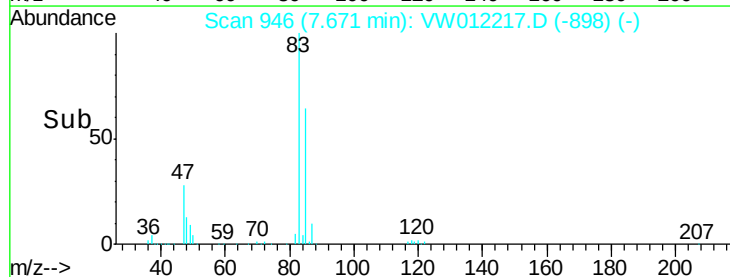
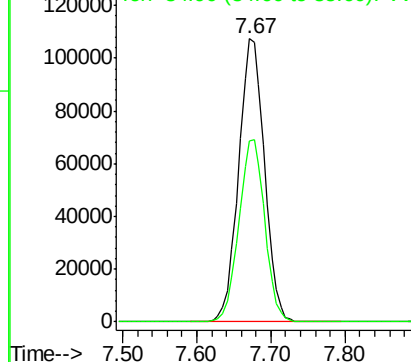
Ion Ratio Lower Upper

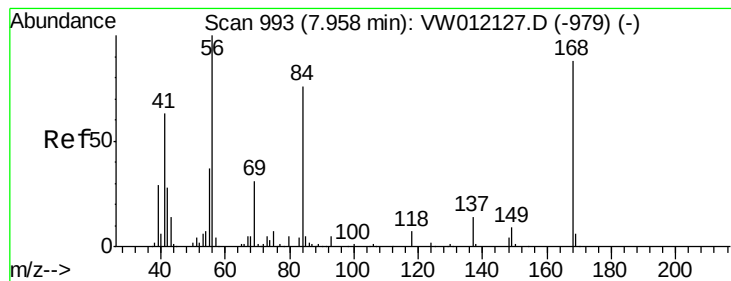
83 100

85 64.1 50.6 76.0



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 48.182 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

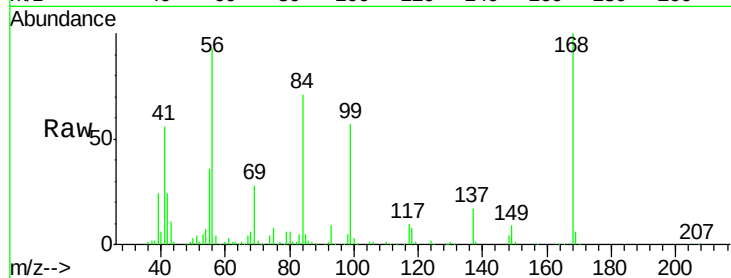
Tot Ion: 56 Resp: 251623

Ion Ratio Lower Upper

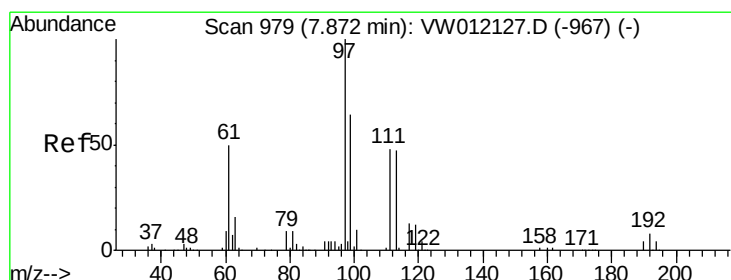
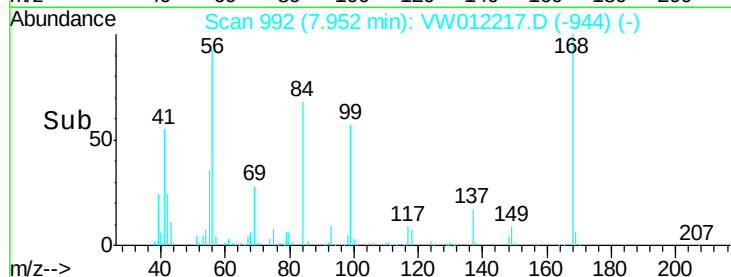
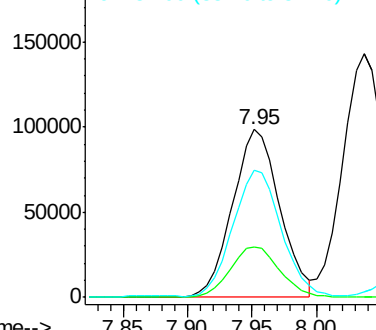
56 100

69 30.4 24.9 37.3

84 74.5 60.6 90.8



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: 53.415 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

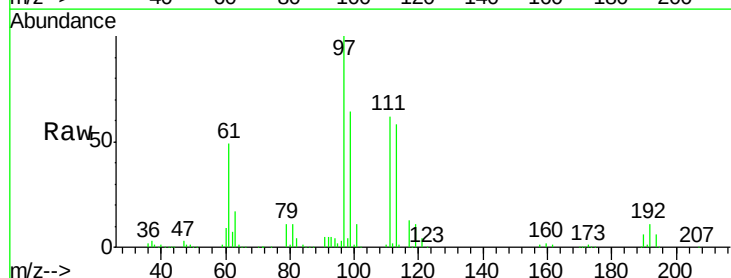
Tgt Ion: 97 Resp: 204061

Ion Ratio Lower Upper

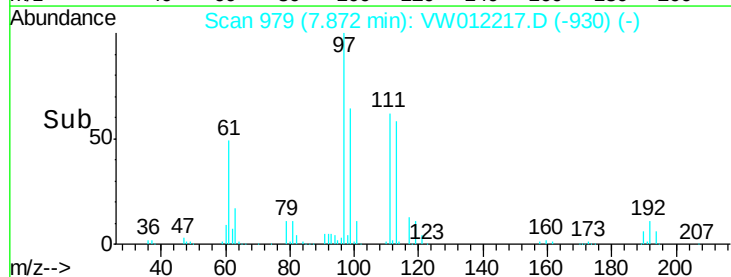
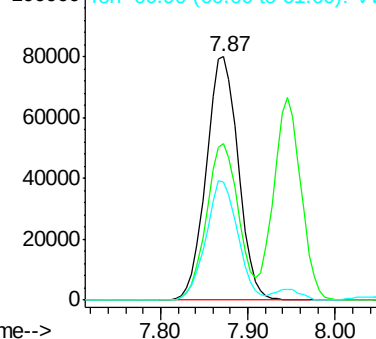
97 100

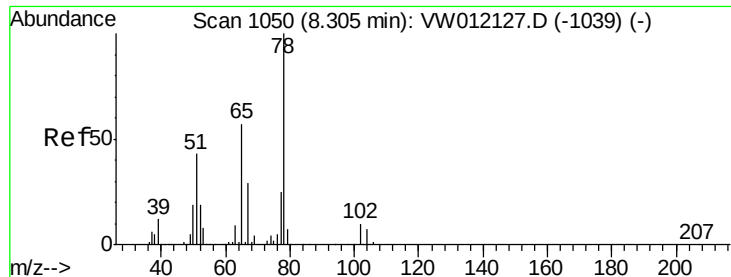
99 64.2 51.4 77.0

61 48.7 39.5 59.3



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

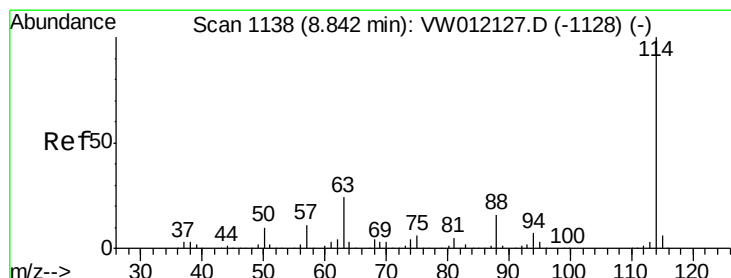
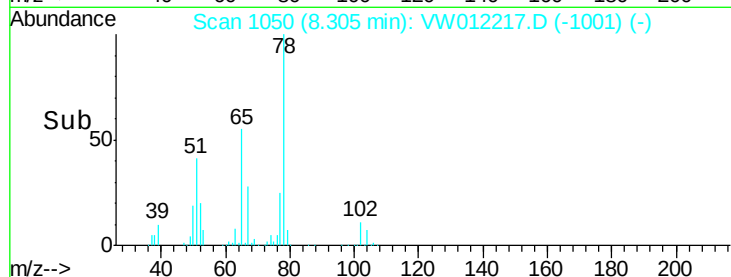
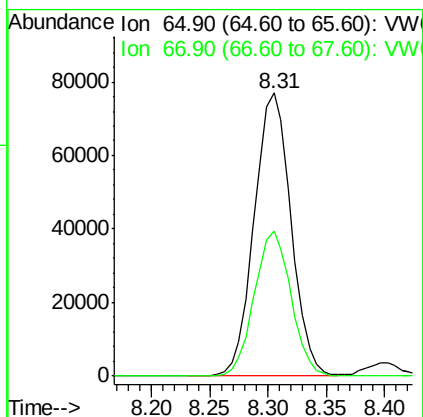
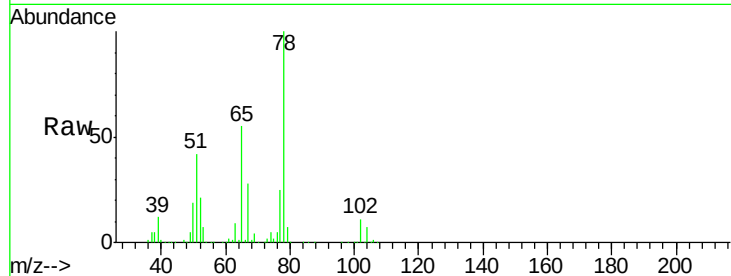




#33
 1,2-Dichloroethane-d4
 Concen: 58.649 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

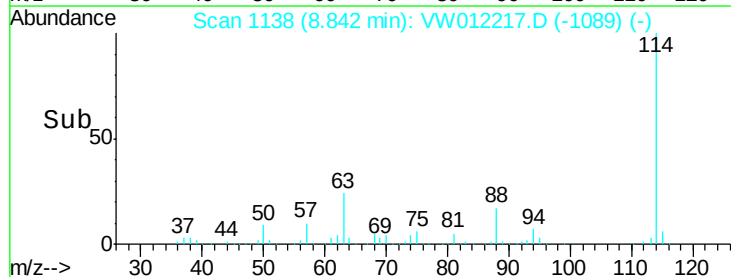
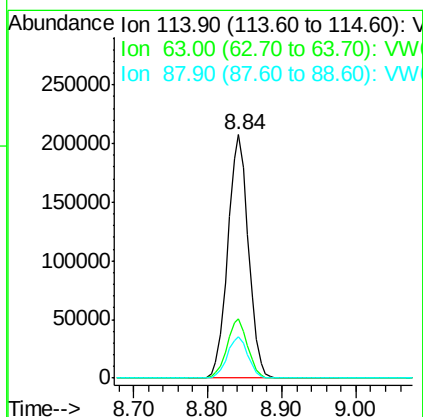
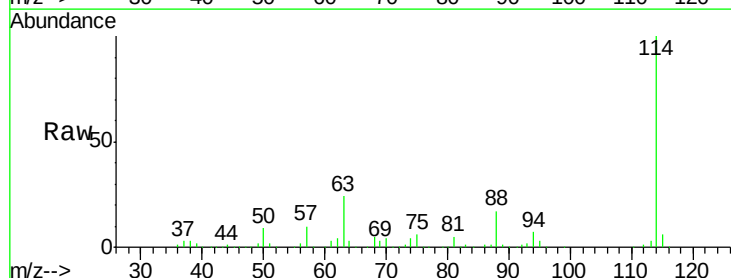
Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

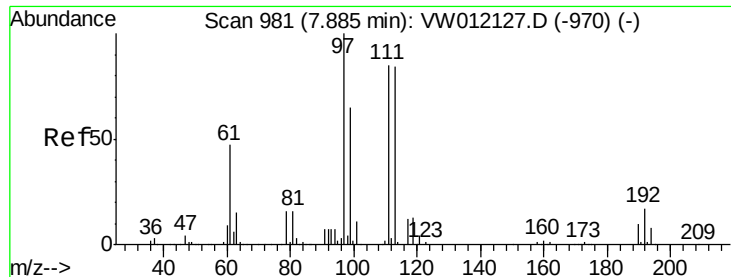
Tot Ion: 65 Resp: 170045
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion: 114 Resp: 401167
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 48.6
 88 17.0 0.0 32.2

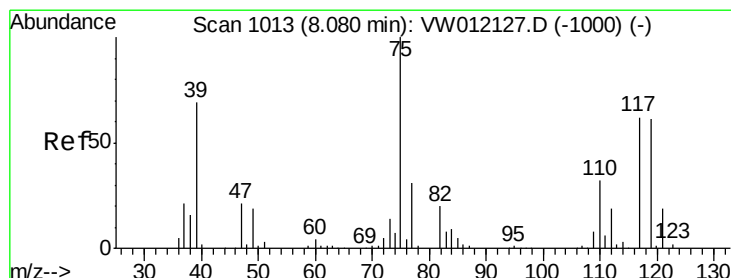
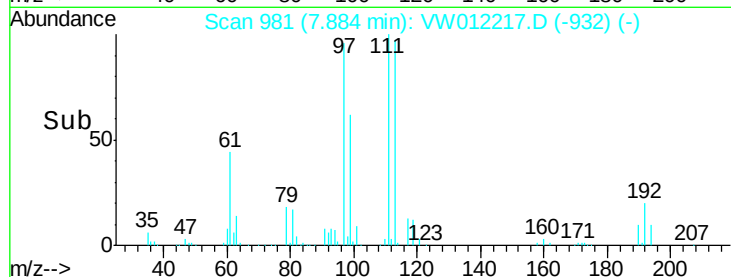
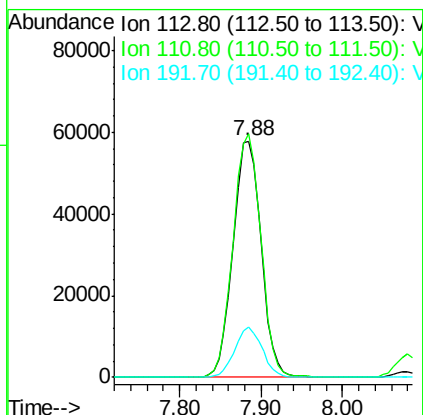
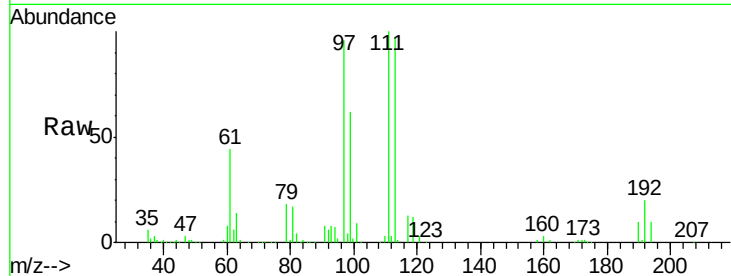




#35
 Dibromofluoromethane
 Concen: 57.539 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

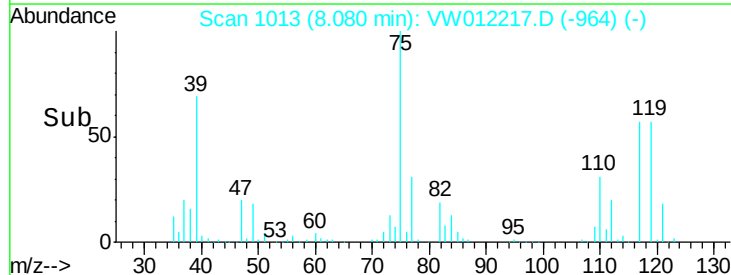
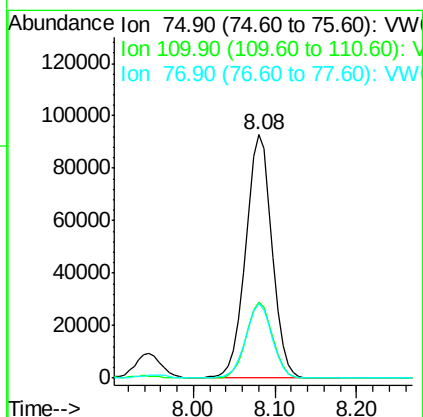
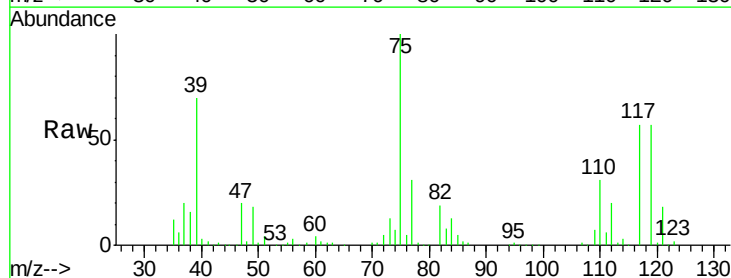
Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

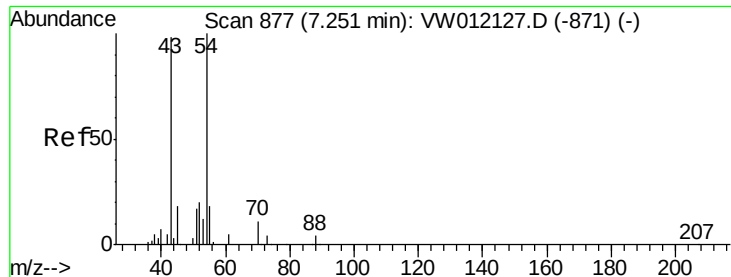
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.7	124.1
192	20.6	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 50.379 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.3	15.6	46.8
77	30.9	24.6	36.8





#37

Ethyl Acetate

Concen: 27.520 ug/l

RT: 7.25 min Scan# 877

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

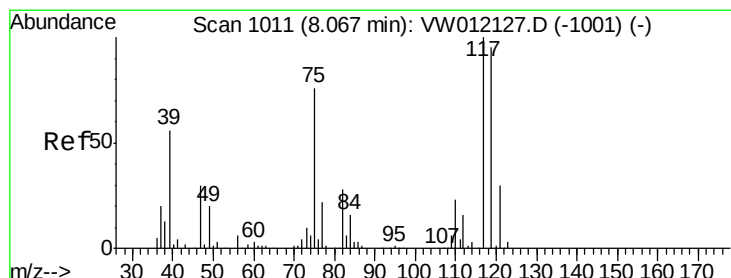
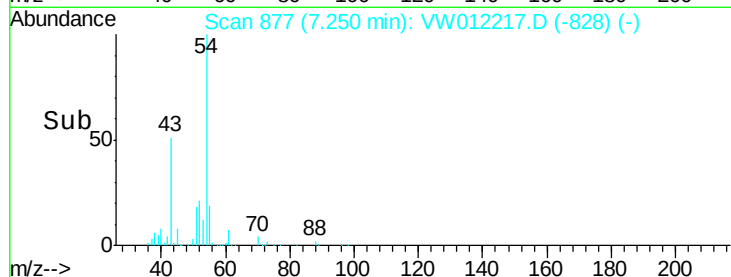
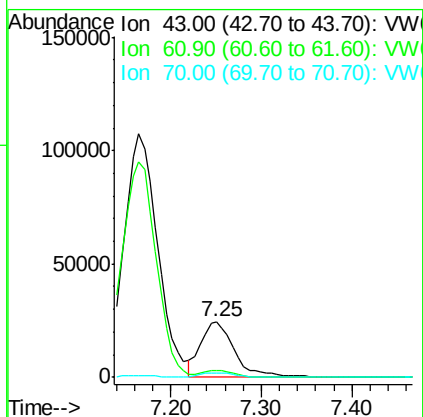
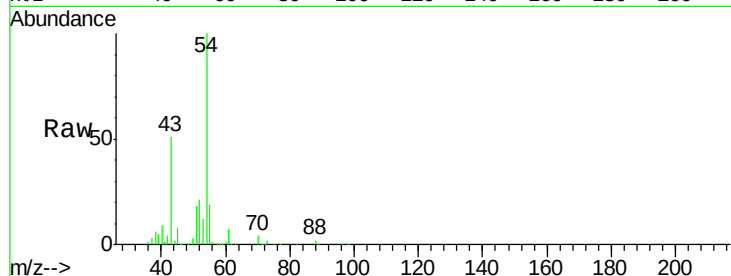
Tot Ion: 43 Resp: 62519

Ion Ratio Lower Upper

43 100

61 0.0 9.2 13.8#

70 8.8 6.9 10.3



#38

Carbon Tetrachloride

Concen: 50.415 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

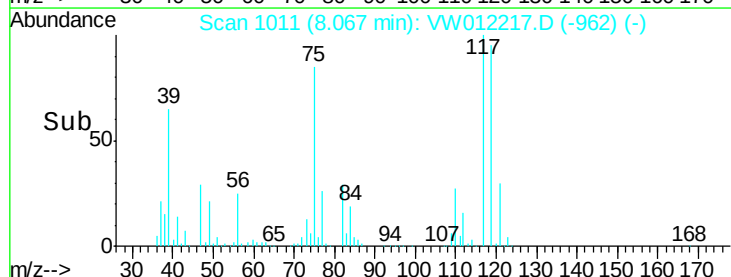
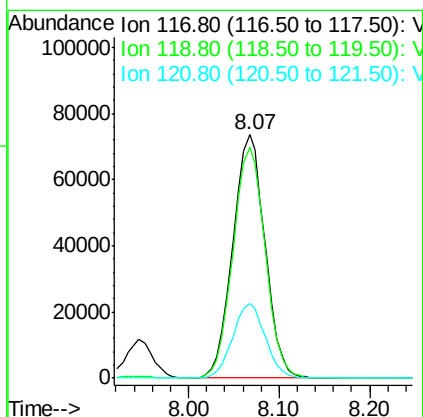
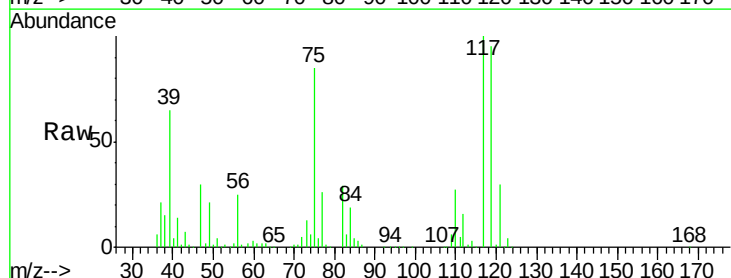
Tgt Ion: 117 Resp: 180894

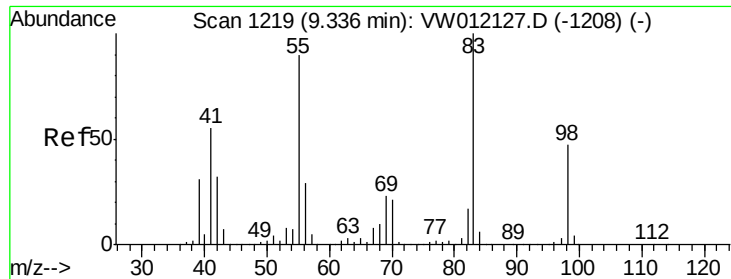
Ion Ratio Lower Upper

117 100

119 94.8 76.2 114.2

121 30.5 23.8 35.8

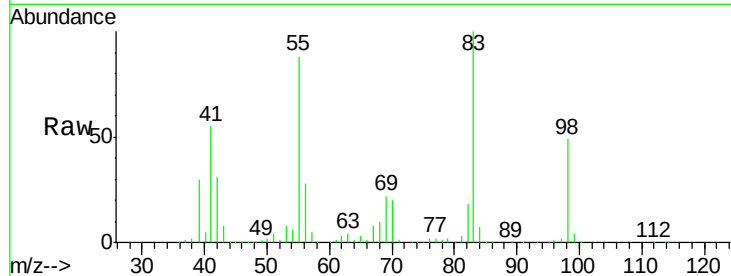




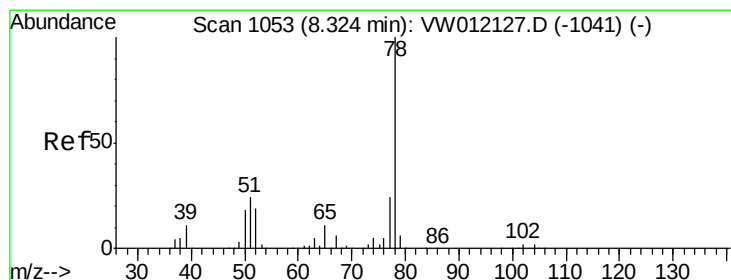
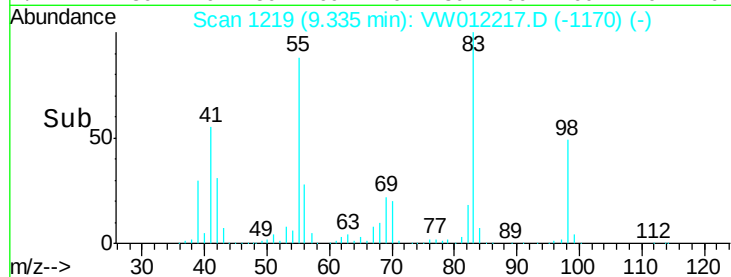
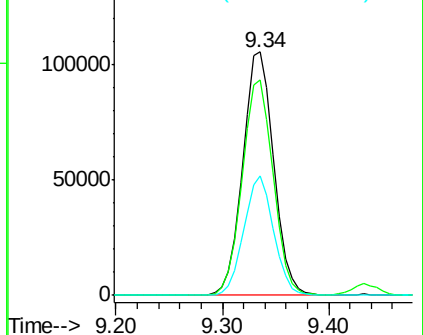
#39
Methylvlcyclohexane
Concen: 46.447 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

Tot Ion: 83 Resp: 216314
Ion Ratio Lower Upper
83 100
55 88.3 71.8 107.8
98 48.8 37.8 56.8

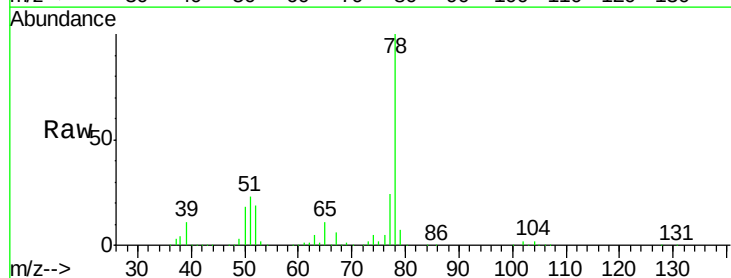


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

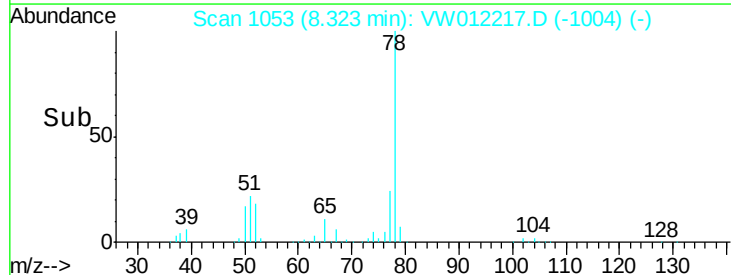
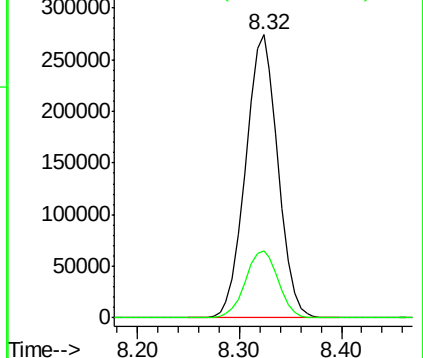


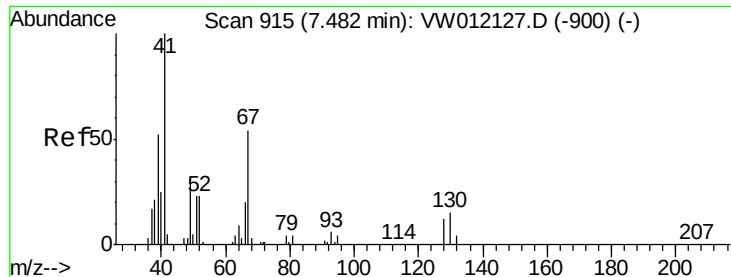
#40
Benzene
Concen: 53.266 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion: 78 Resp: 602960
Ion Ratio Lower Upper
78 100
77 23.8 19.5 29.3



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW

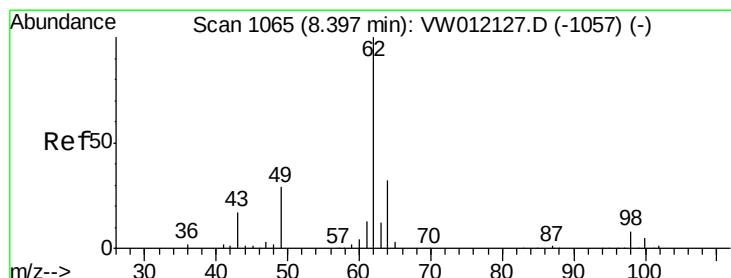
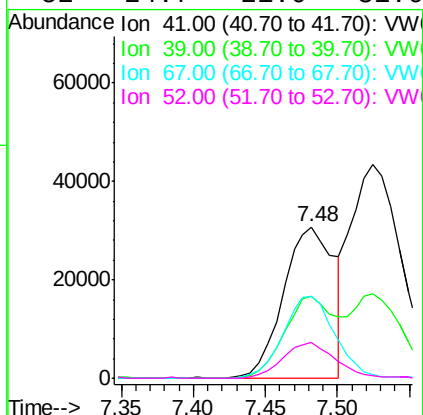
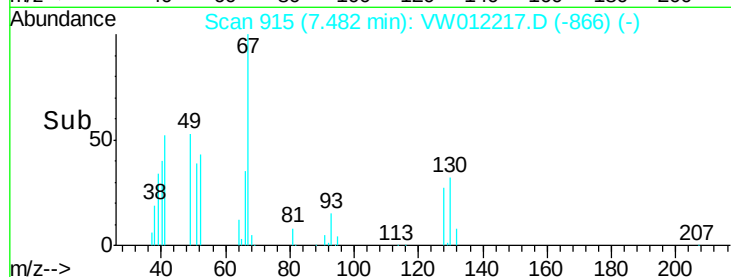
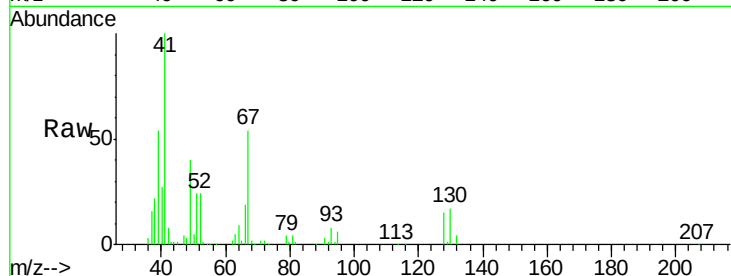




#41
Methacrylonitrile
Concen: 56.695 ug/l
RT: 7.48 min Scan# 915
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

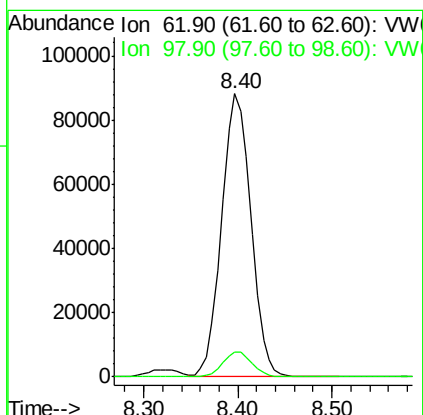
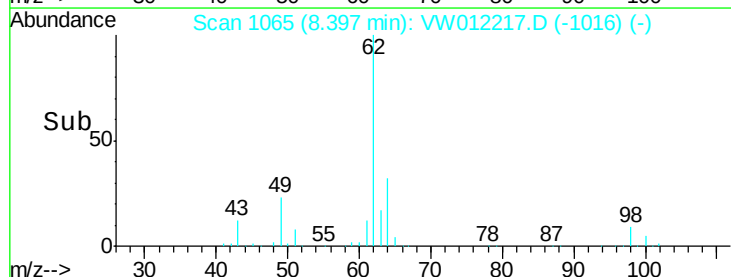
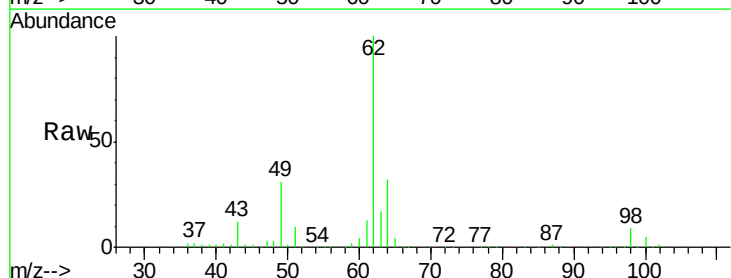
Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

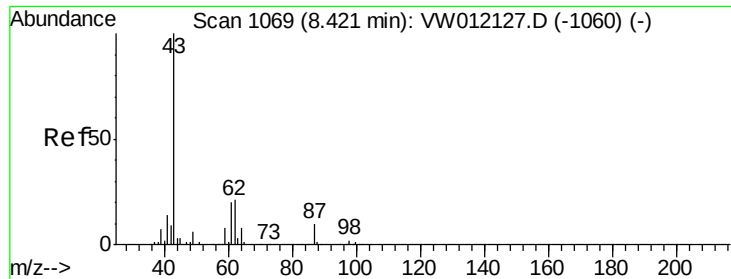
Tot Ion:	41	Resp:	75698
Ion	Ratio	Lower	Upper
41	100		
39	58.6	45.8	68.8
67	55.4	46.2	69.4
52	24.7	21.0	31.6



#42
1,2-Dichloroethane
Concen: 53.789 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion:	62	Resp:	190828
Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	16.6





#43

Isopropyl Acetate

Concen: 34.469 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

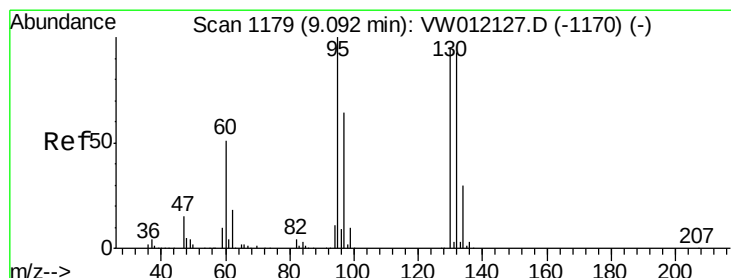
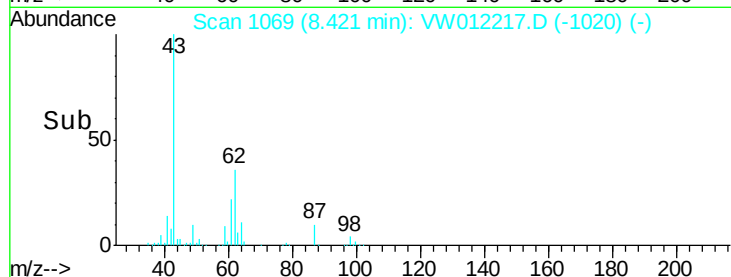
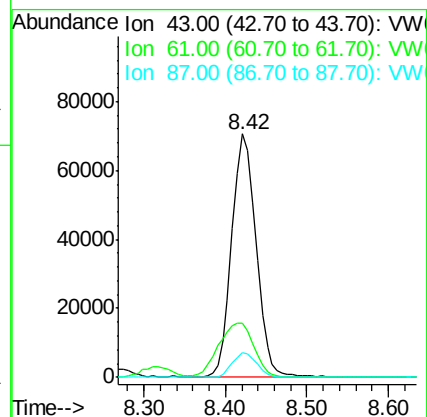
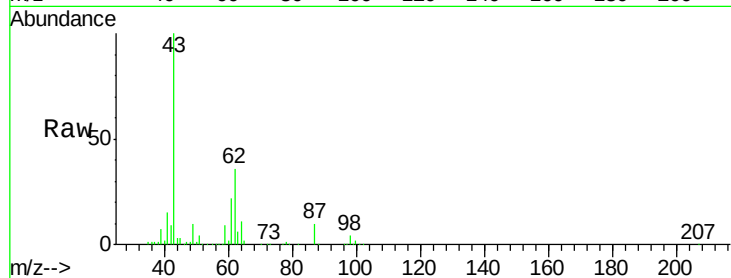
Tot Ion: 43 Resp: 145046

Ion Ratio Lower Upper

43 100

61 32.4 21.1 31.7#

87 10.3 8.2 12.2



#44

Trichloroethene

Concen: 51.056 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012217.D

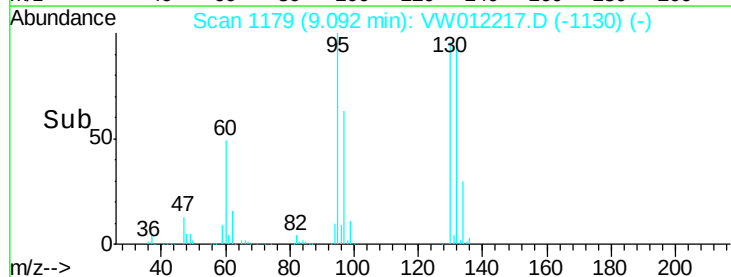
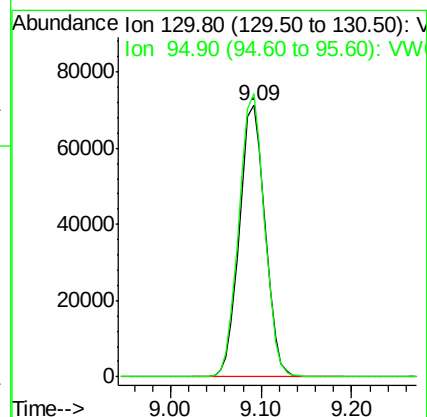
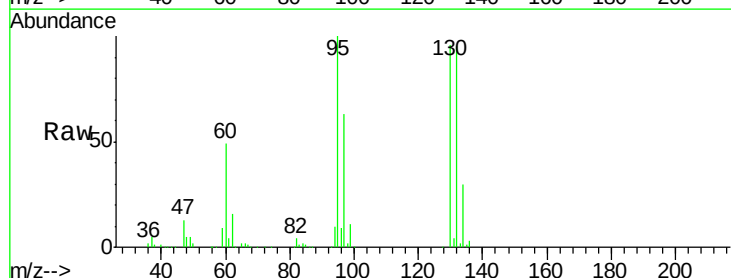
Acq: 27 Aug 2019 17:18

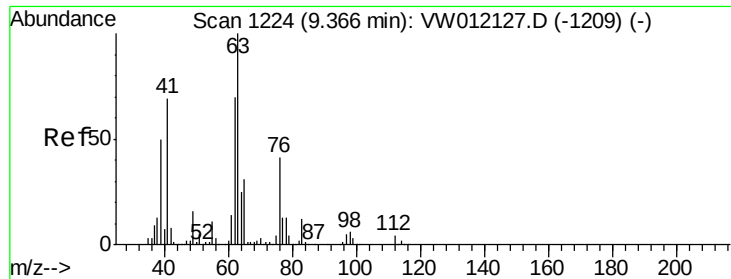
Tgt Ion: 130 Resp: 140496

Ion Ratio Lower Upper

130 100

95 104.3 0.0 210.6

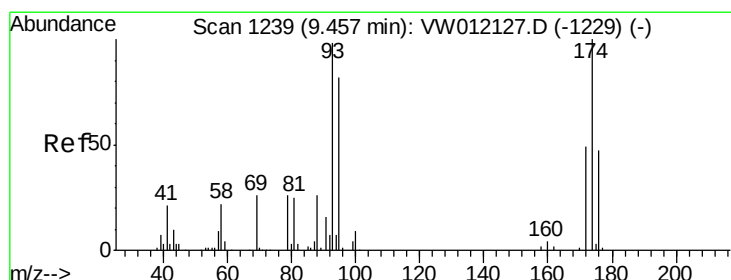
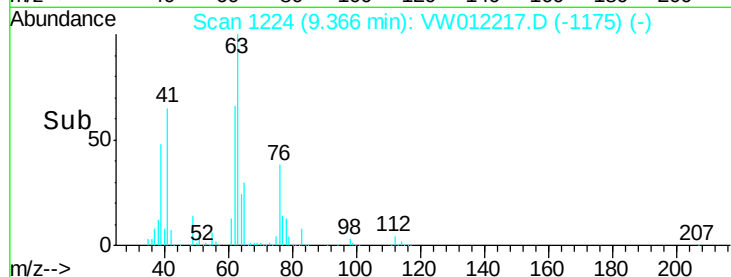
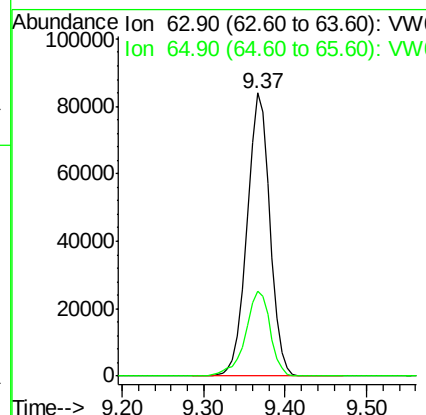
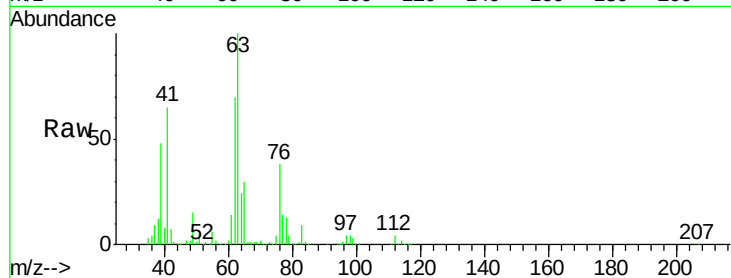




#45
 1,2-Dichloropropane
 Concen: 53.507 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

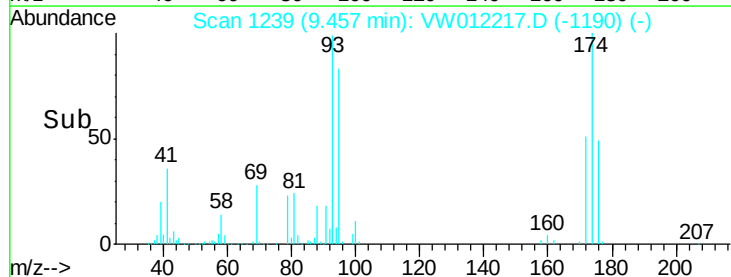
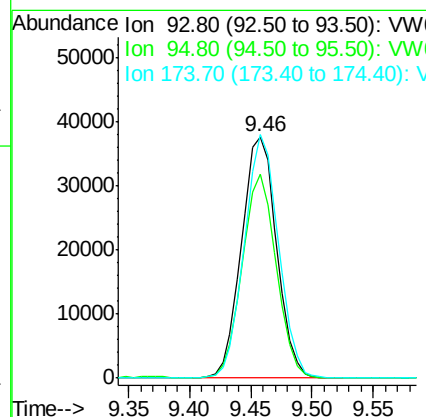
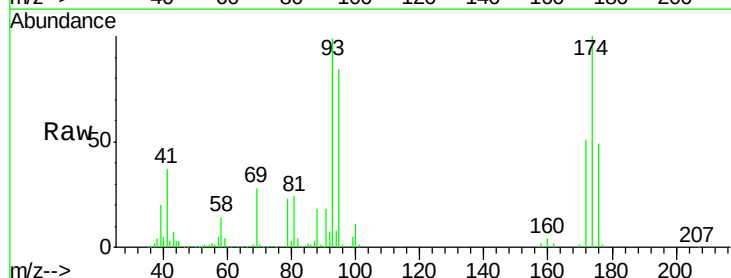
Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

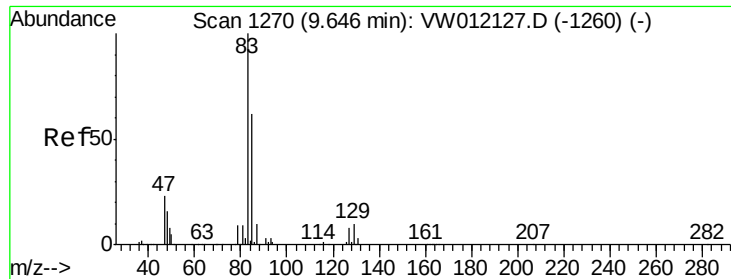
Tot Ion: 63 Resp: 163011
 Ion Ratio Lower Upper
 63 100
 65 30.1 25.0 37.4



#46
 Dibromomethane
 Concen: 55.402 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion: 93 Resp: 75097
 Ion Ratio Lower Upper
 93 100
 95 82.0 67.2 100.8
 174 98.0 79.0 118.6





#47

Bromodichloromethane

Concen: 53.564 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

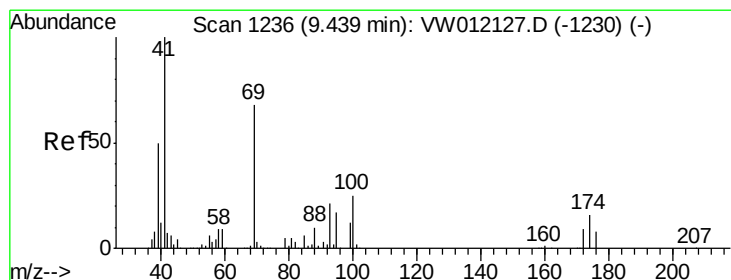
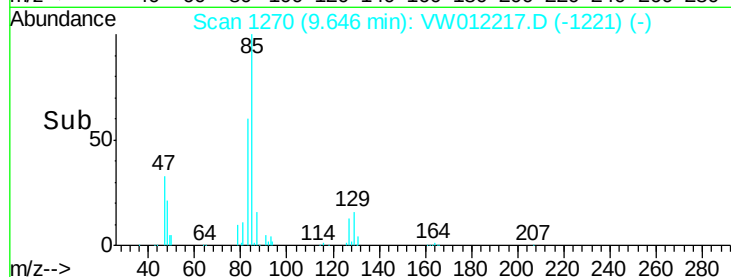
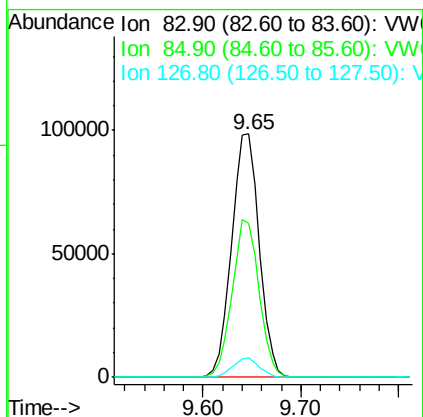
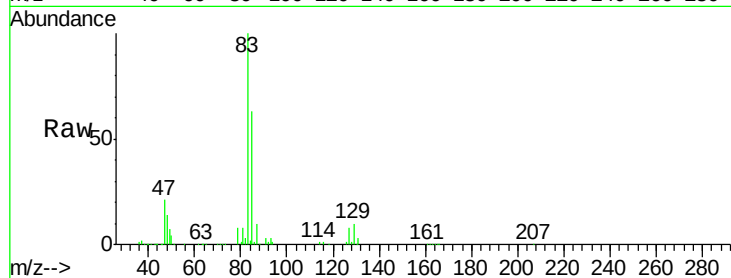
Tot Ion: 83 Resp: 193233

Ion Ratio Lower Upper

83 100

85 63.2 49.4 74.2

127 8.0 6.1 9.1



#48

Methyl methacrylate

Concen: 74.065 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

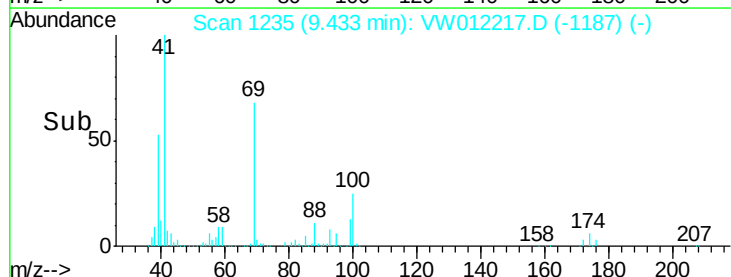
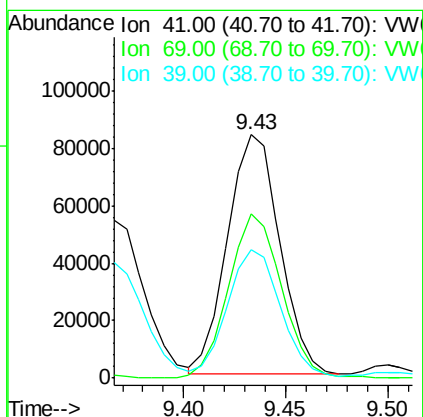
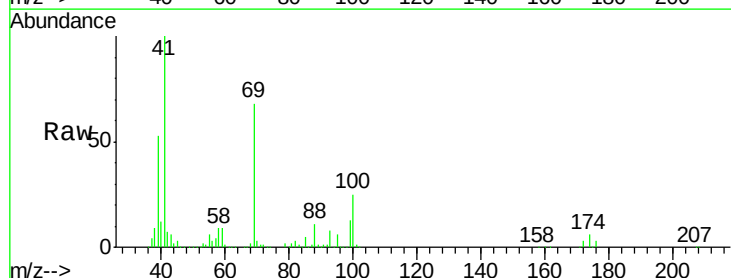
Tgt Ion: 41 Resp: 148336

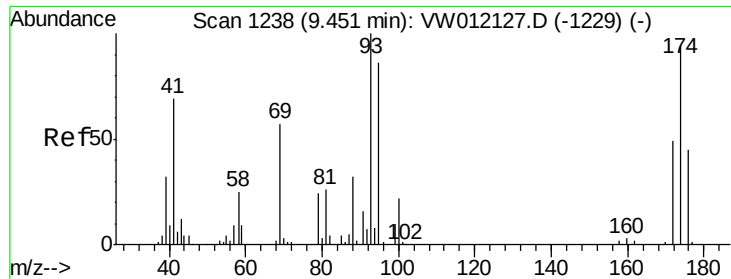
Ion Ratio Lower Upper

41 100

69 69.6 56.7 85.1

39 54.8 42.0 63.0





#49

1,4-Dioxane

Concen: 1244.091 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

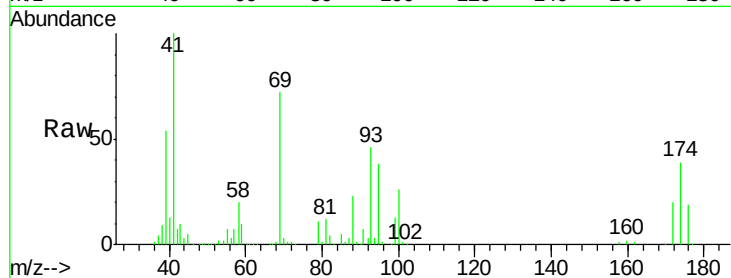
Tot Ion: 88 Resp: 25816

Ion Ratio Lower Upper

88 100

43 44.1 32.9 49.3

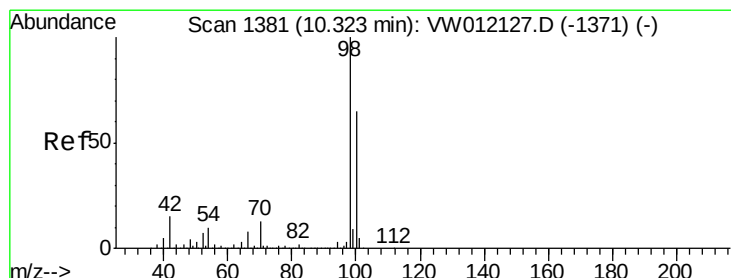
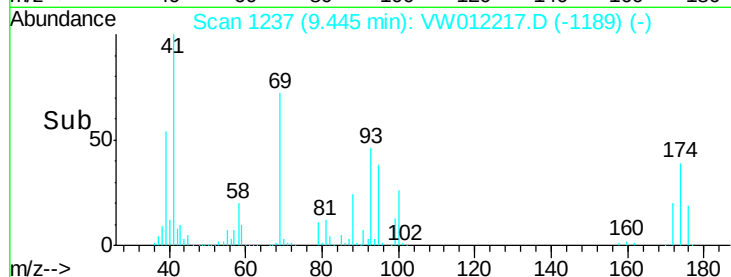
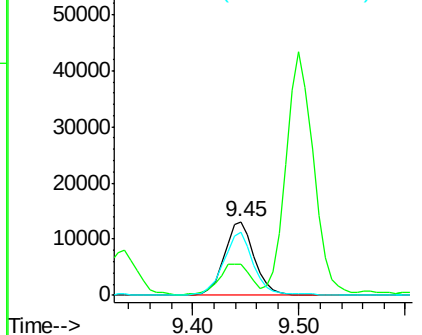
58 87.1 71.0 106.4



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 55.601 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012217.D

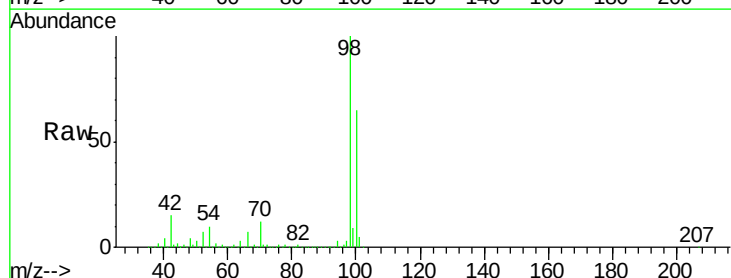
Acq: 27 Aug 2019 17:18

Tgt Ion: 98 Resp: 539846

Ion Ratio Lower Upper

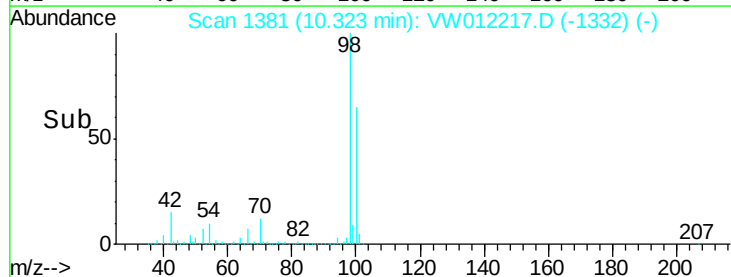
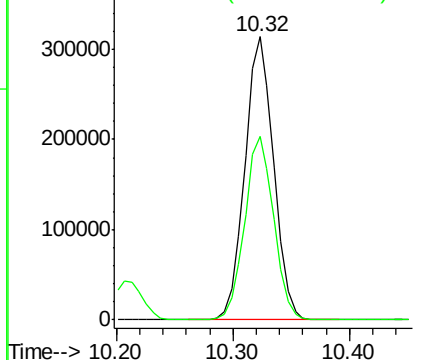
98 100

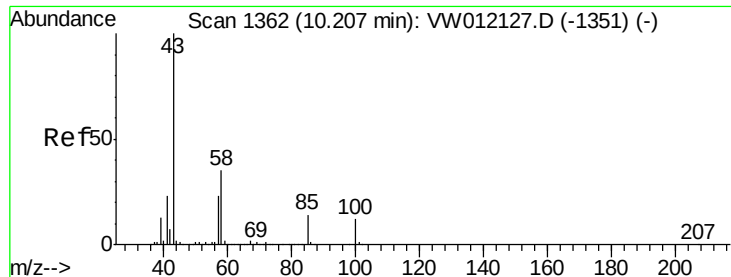
100 65.1 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 291.695 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

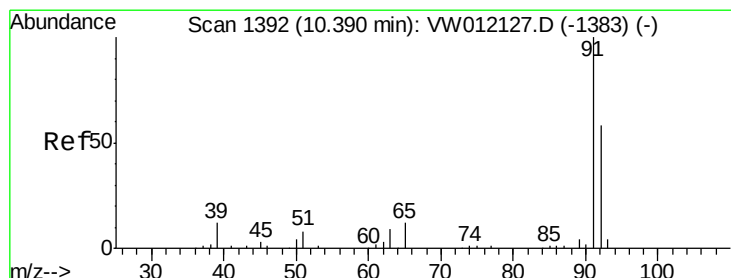
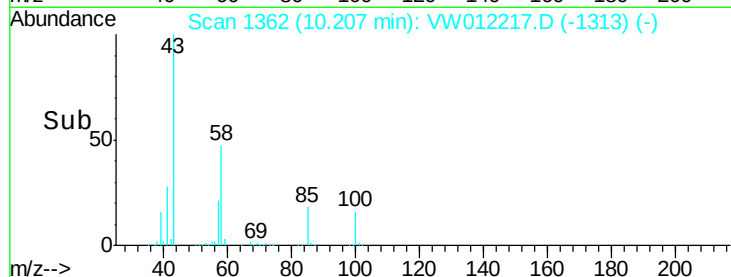
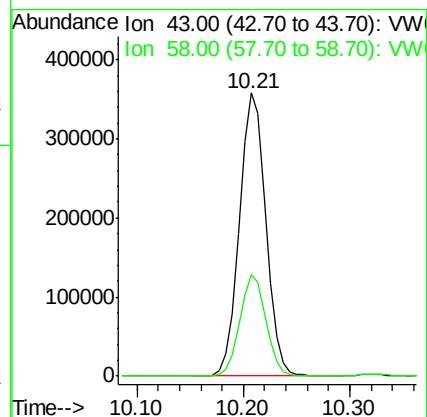
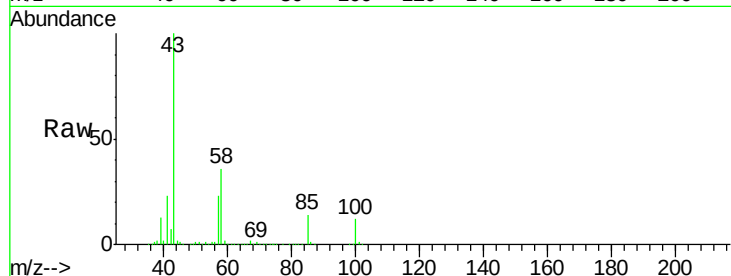
S402-K1-1.0-1.5-082619MS

Tot Ion: 43 Resp: 624312

Ion Ratio Lower Upper

43 100

58 35.6 28.2 42.2



#52

Toluene

Concen: 57.750 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012217.D

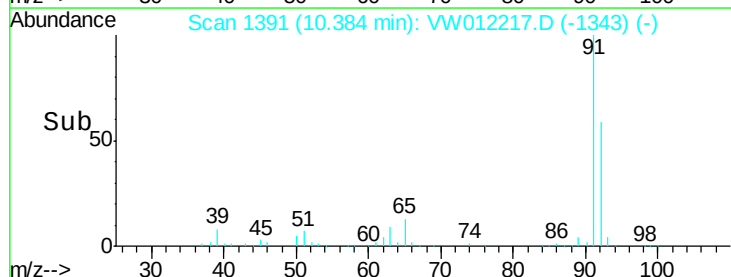
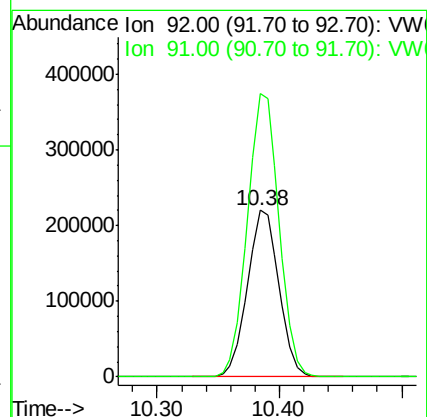
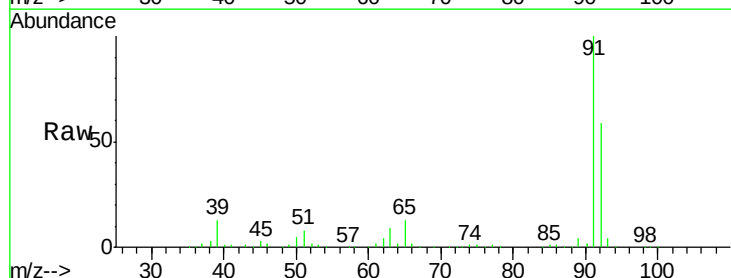
Acq: 27 Aug 2019 17:18

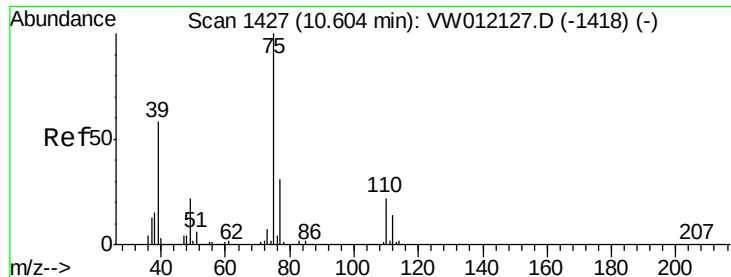
Tgt Ion: 92 Resp: 392718

Ion Ratio Lower Upper

92 100

91 171.2 136.6 204.8





#53

t-1,3-Dichloropropene

Concen: 53.598 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

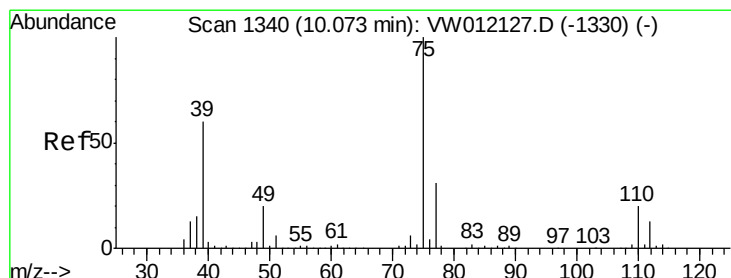
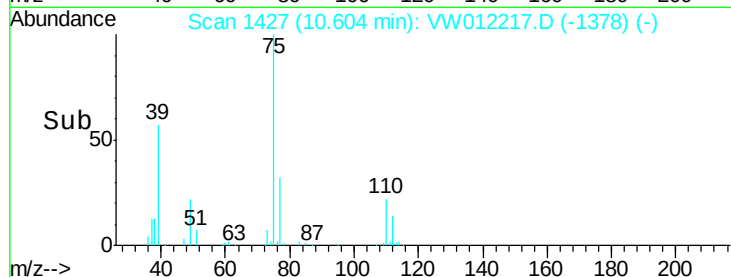
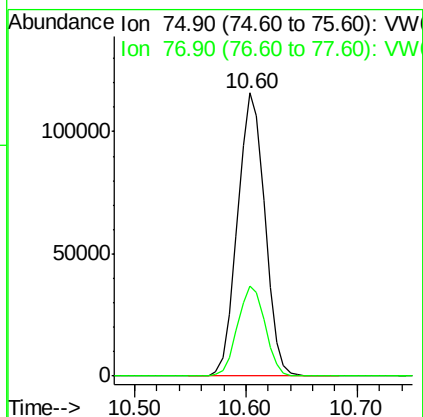
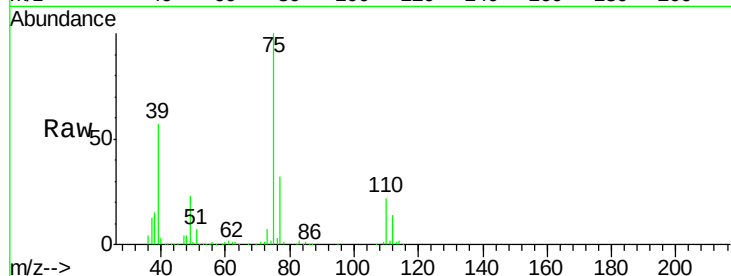
S402-K1-1.0-1.5-082619MS

Tot Ion: 75 Resp: 196958

Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 53.061 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

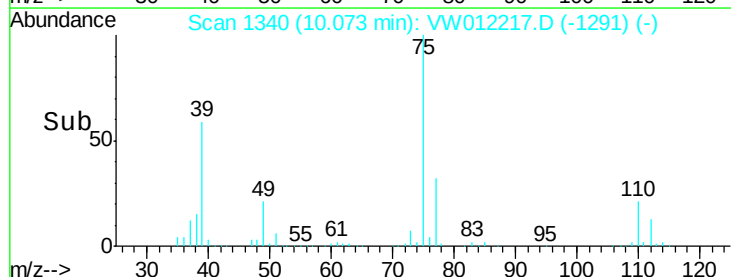
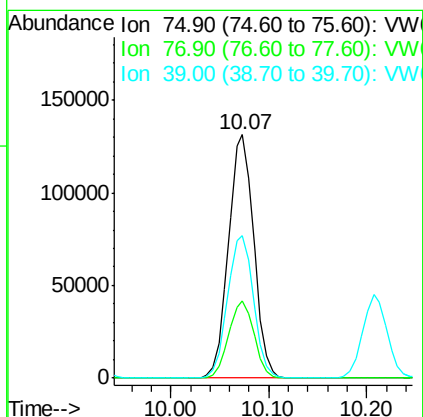
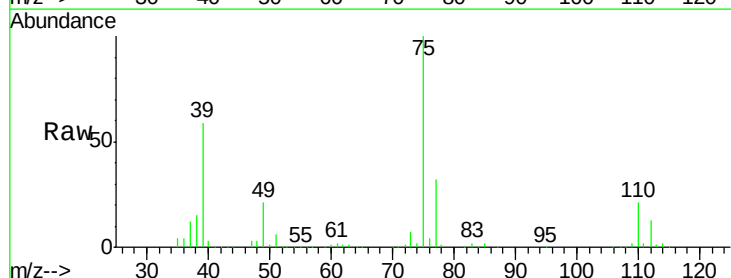
Tgt Ion: 75 Resp: 235431

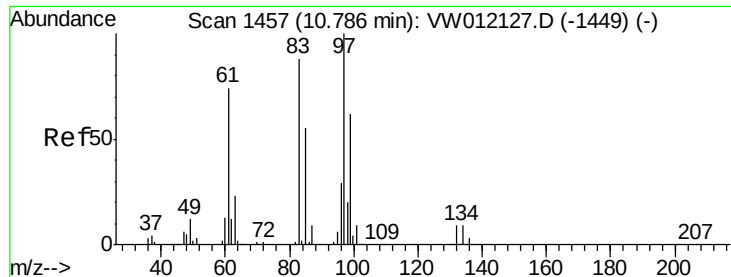
Ion Ratio Lower Upper

75 100

77 31.5 25.1 37.7

39 58.6 48.3 72.5





#55

1,1,2-Trichloroethane

Concen: 54.639 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

Tot Ion: 97 Resp: 104788

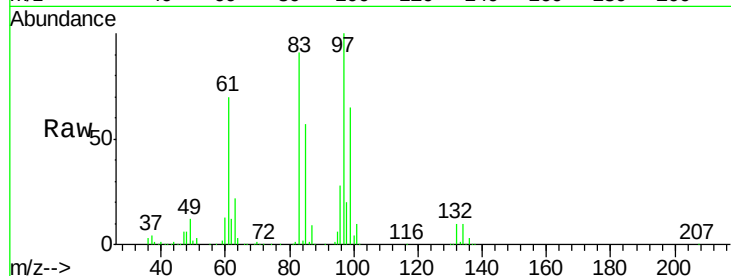
Ion Ratio Lower Upper

97 100

83 90.8 70.8 106.2

85 57.0 43.8 65.8

99 64.9 49.8 74.6

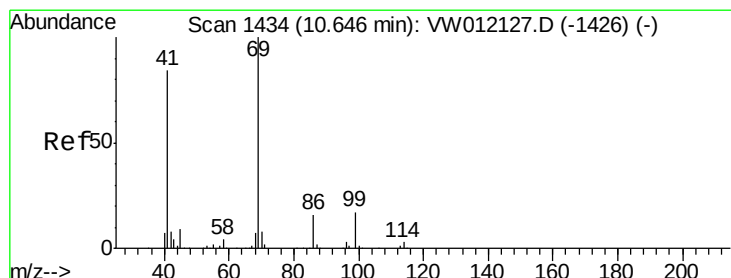
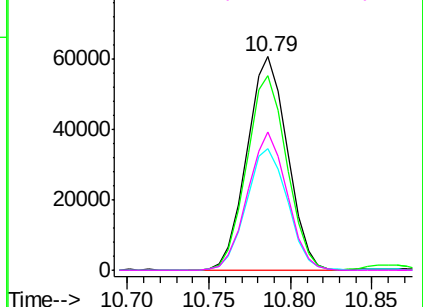
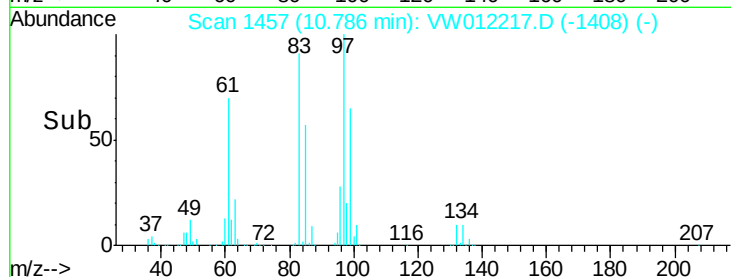


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 30.080 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

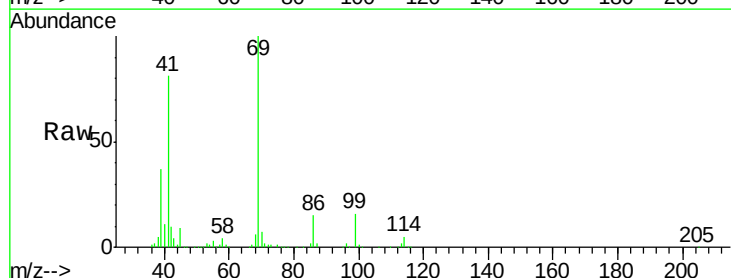
Tgt Ion: 69 Resp: 83961

Ion Ratio Lower Upper

69 100

41 82.9 66.5 99.7

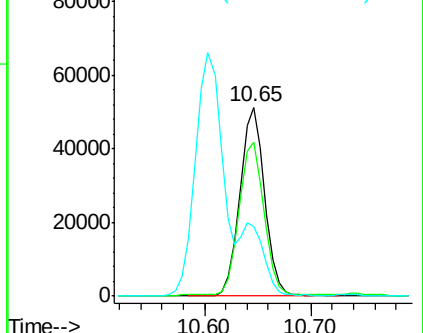
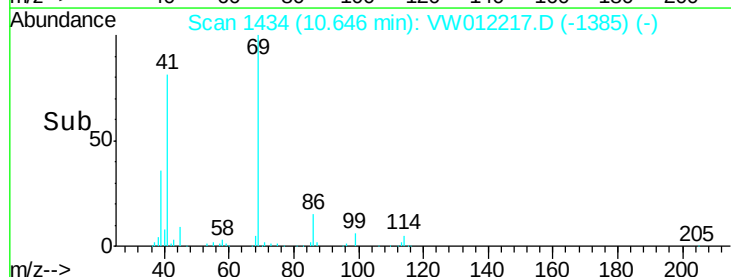
39 0.0 31.0 46.4#

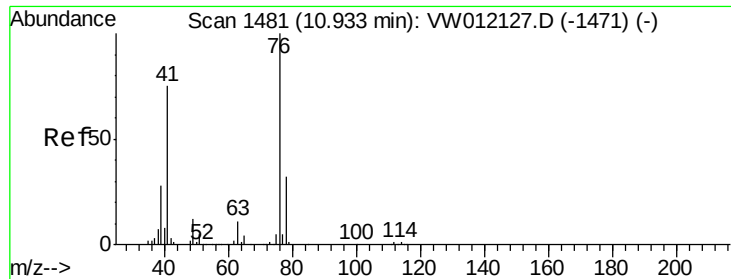


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

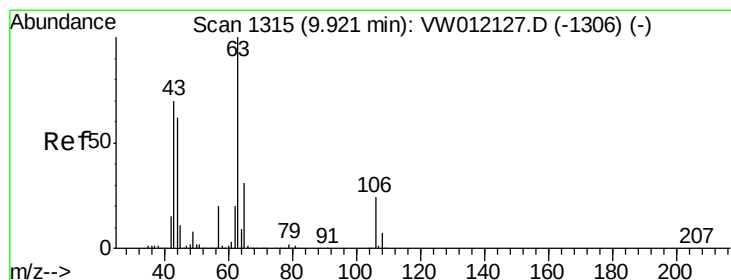
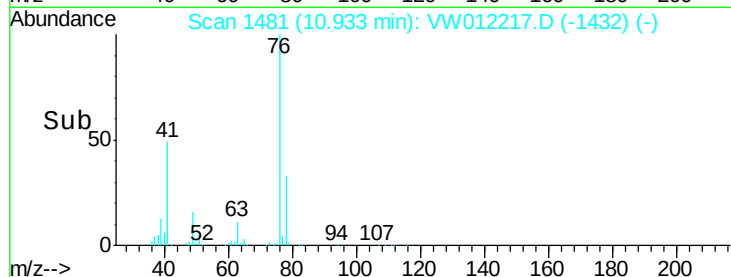
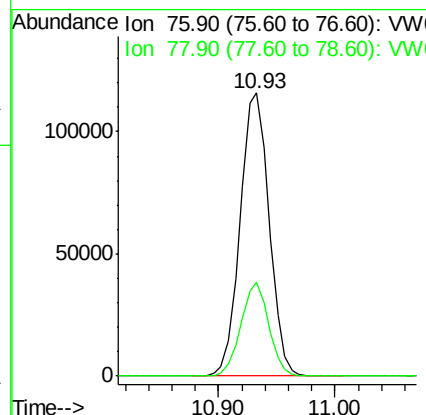
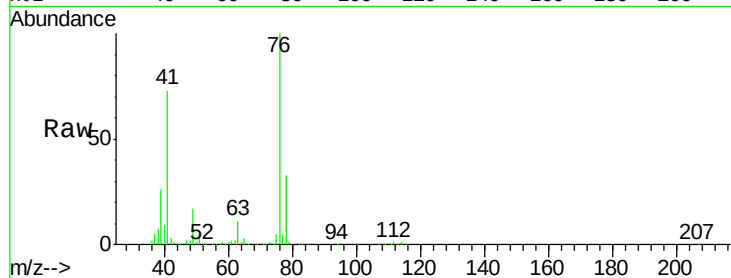




#57
 1,3-Dichloropropane
 Concen: 55.611 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

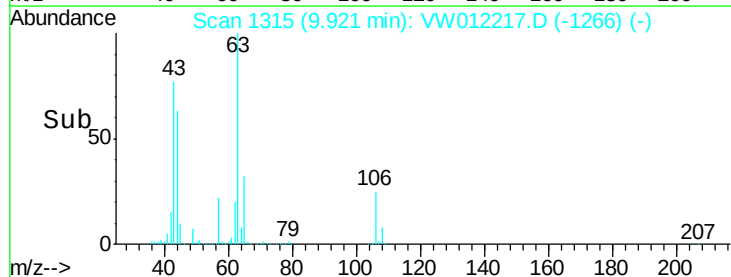
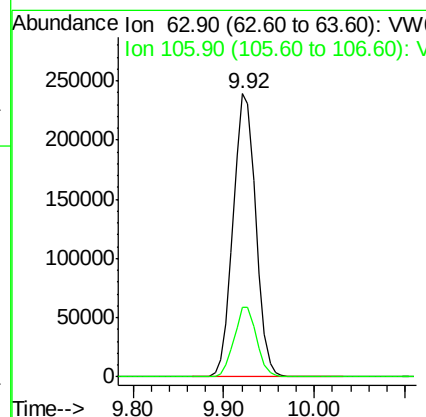
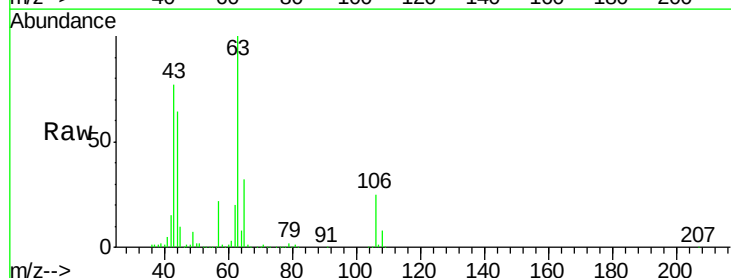
Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

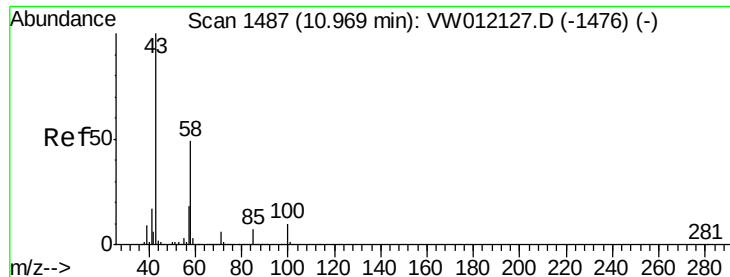
Tot Ion: 76 Resp: 201544
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.8 38.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 289.121 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion: 63 Resp: 414173
 Ion Ratio Lower Upper
 63 100
 106 24.7 19.8 29.8

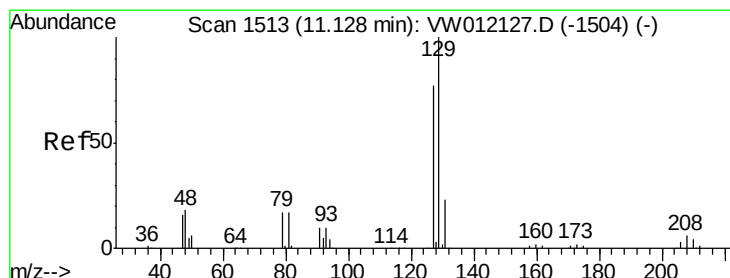
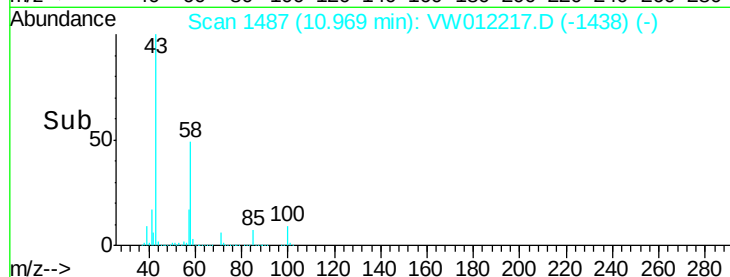
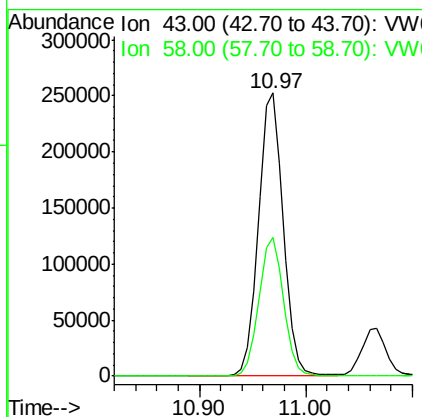
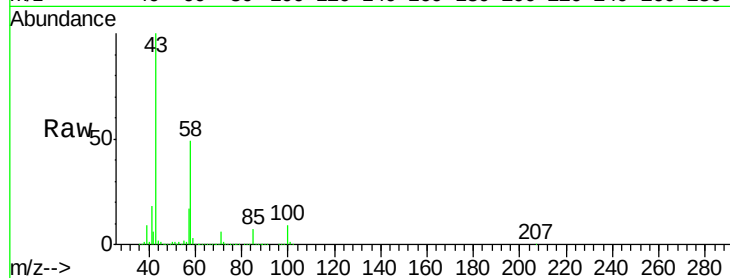




#59
2-Hexanone
Concen: 271.695 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

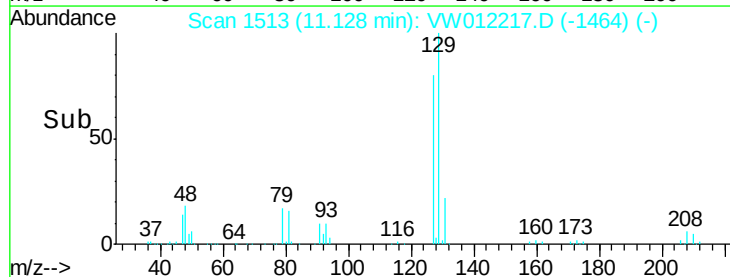
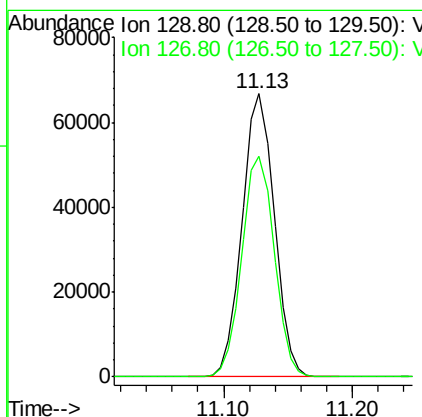
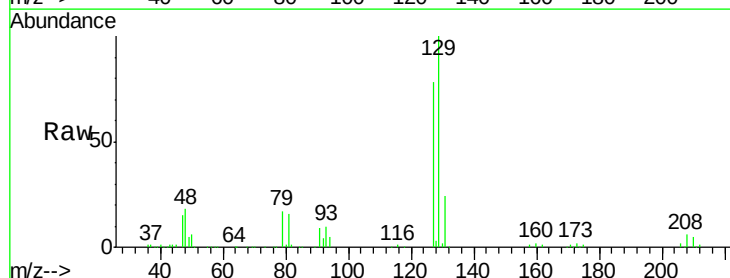
Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

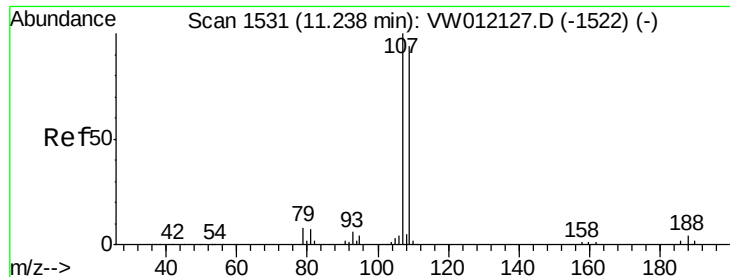
Tot Ion: 43 Resp: 411453
Ion Ratio Lower Upper
43 100
58 49.1 24.3 72.9



#60
Dibromochloromethane
Concen: 54.072 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion: 129 Resp: 115505
Ion Ratio Lower Upper
129 100
127 78.6 38.6 115.8





#61

1,2-Dibromoethane

Concen: 55.770 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

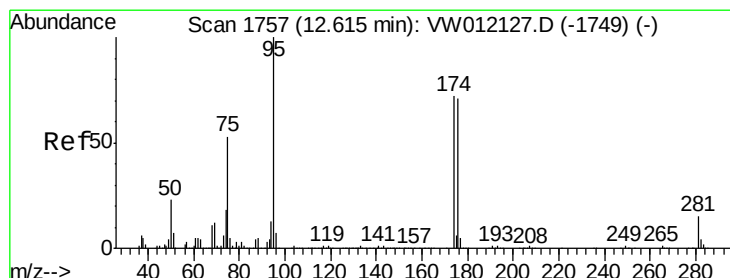
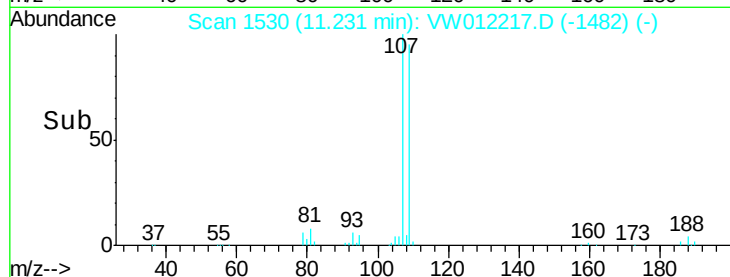
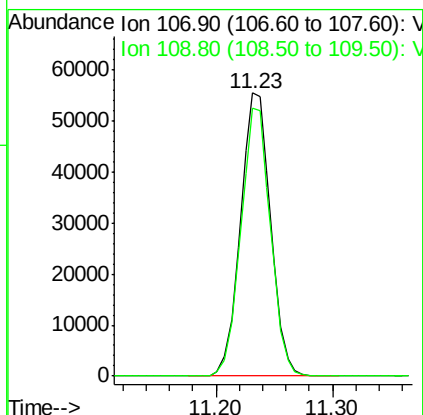
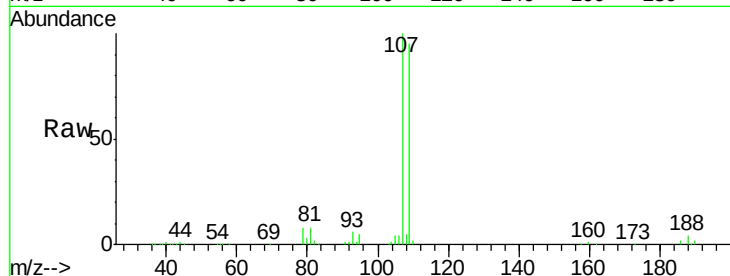
S402-K1-1.0-1.5-082619MS

Tot Ion: 107 Resp: 99645

Ion Ratio Lower Upper

107 100

109 93.8 75.4 113.2



#62

4-Bromofluorobenzene

Concen: 51.626 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

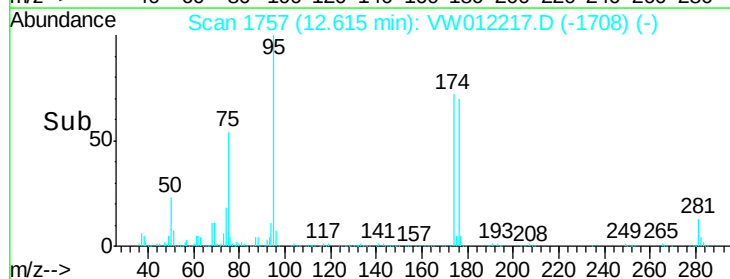
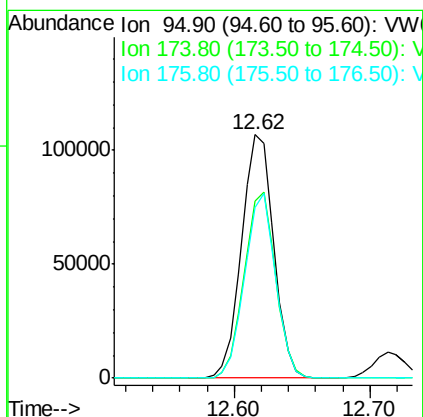
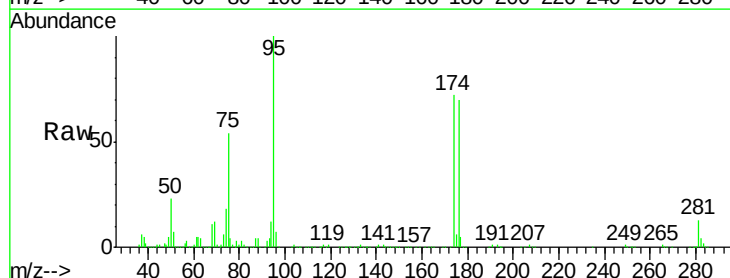
Tgt Ion: 95 Resp: 176692

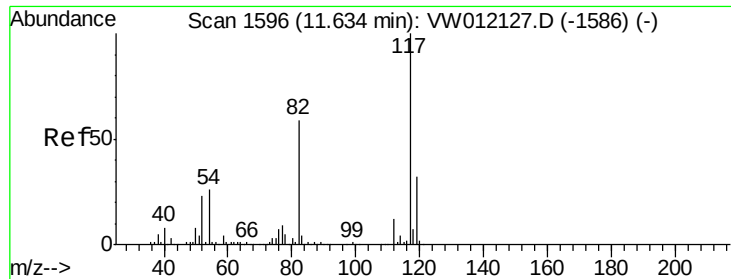
Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.8

176 73.1 0.0 148.6

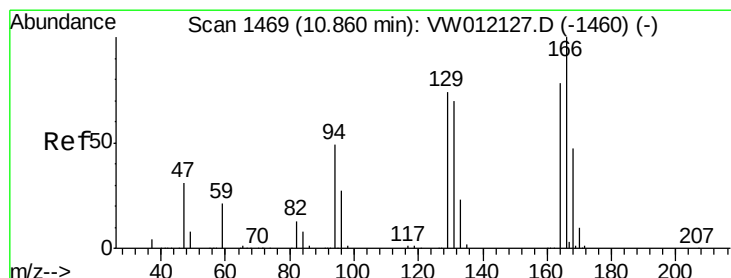
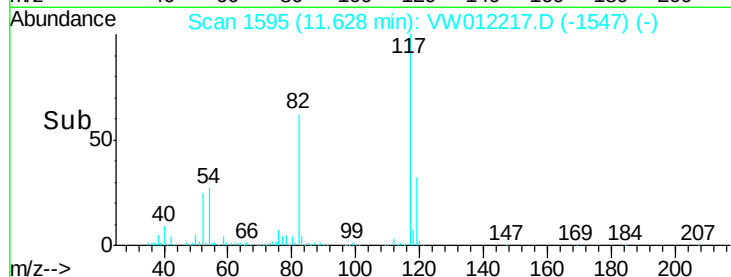
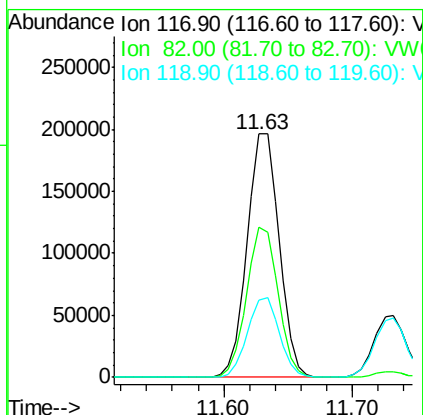
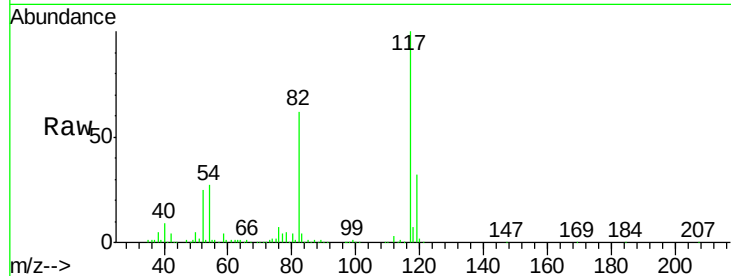




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

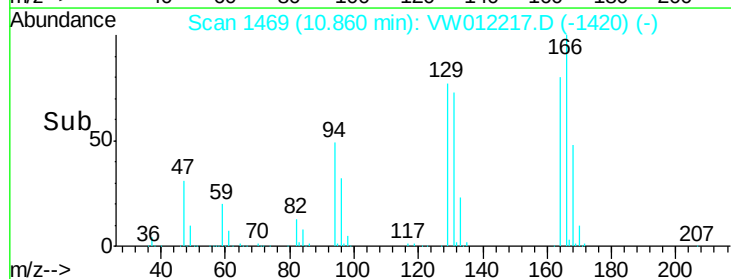
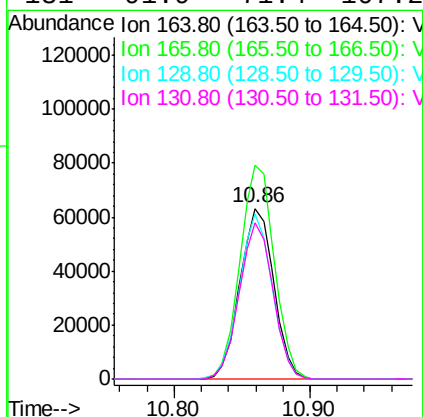
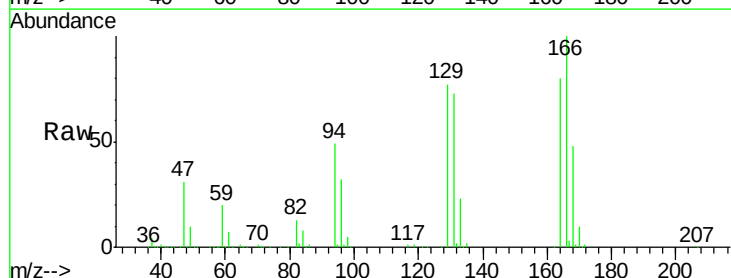
Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

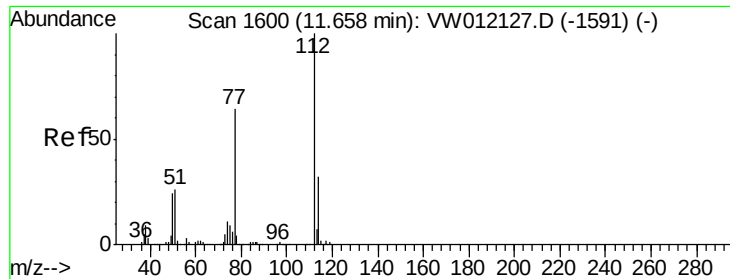
Tot Ion:117 Resp: 337118
Ion Ratio Lower Upper
117 100
82 61.9 47.4 71.2
119 31.5 25.4 38.2



#64
Tetrachloroethene
Concen: 50.350 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion:164 Resp: 110046
Ion Ratio Lower Upper
164 100
166 125.4 102.4 153.6
129 96.9 75.8 113.6
131 91.9 71.4 107.2

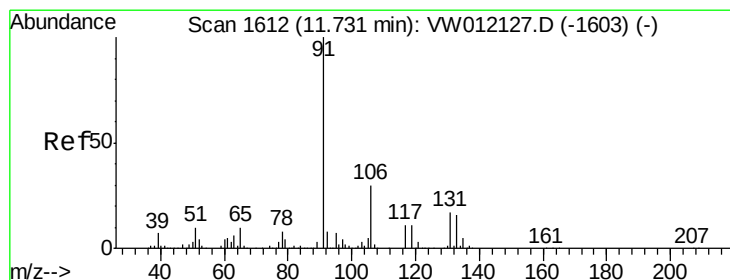
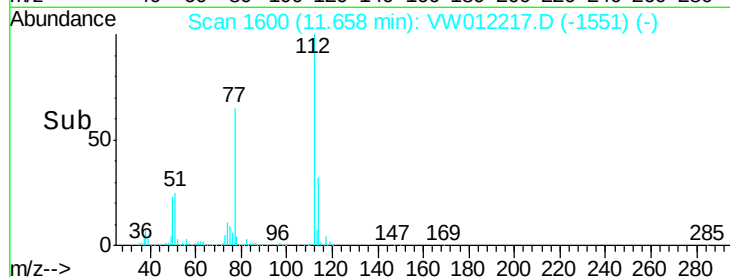
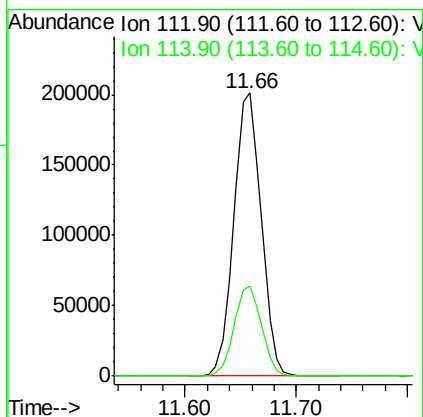
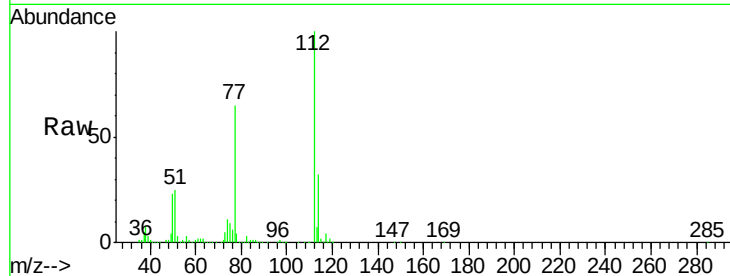




#65
Chlorobenzene
Concen: 51.507 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

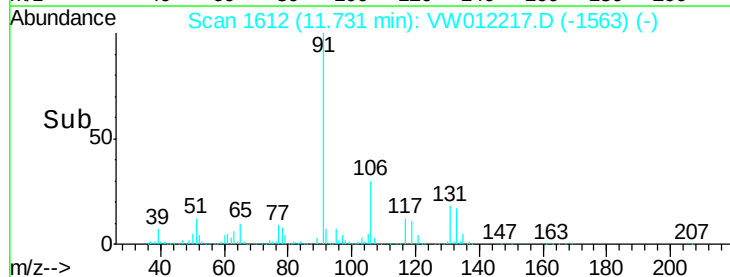
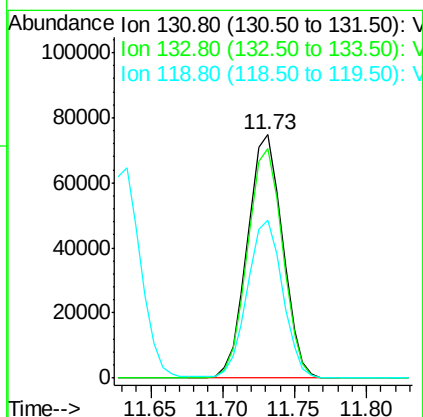
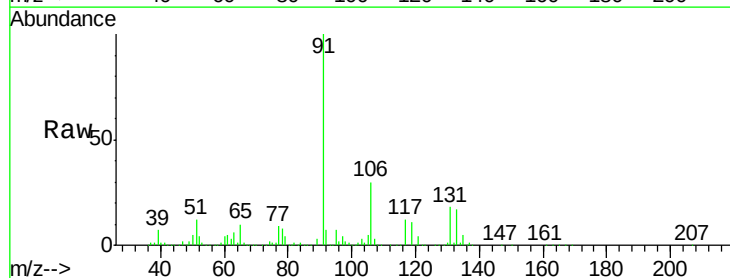
Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

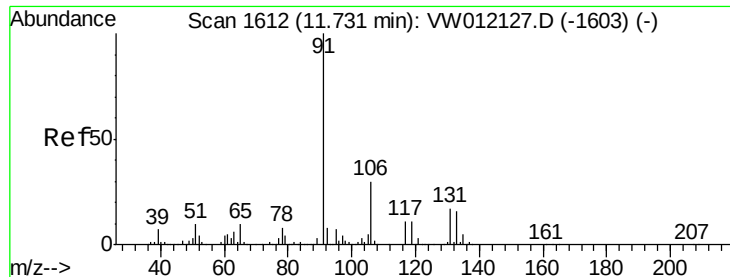
Tot Ion:112 Resp: 341908
Ion Ratio Lower Upper
112 100
114 31.9 25.8 38.6



#66
1,1,1,2-Tetrachloroethane
Concen: 54.769 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion:131 Resp: 126834
Ion Ratio Lower Upper
131 100
133 93.8 47.1 141.3
119 64.5 31.8 95.3

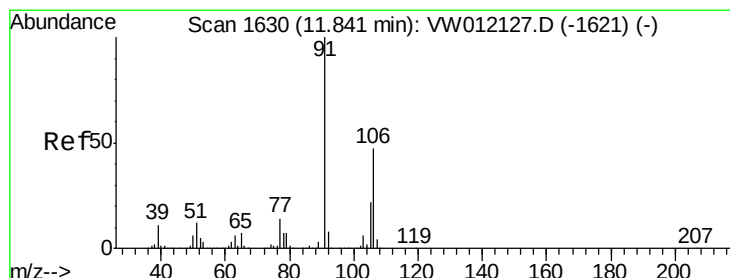
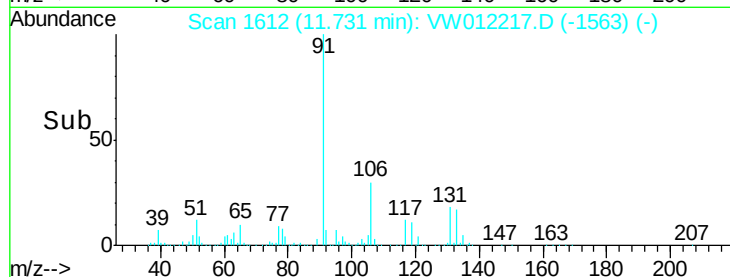
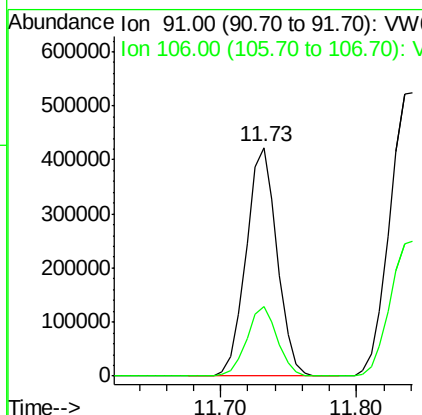
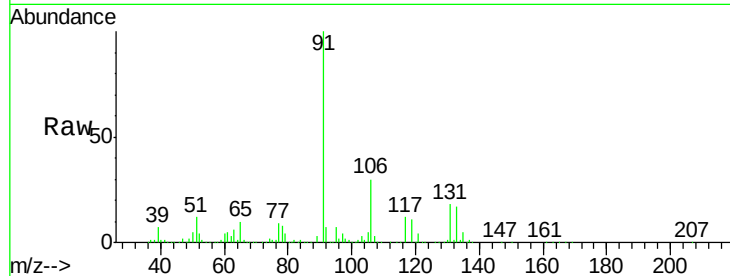




#67
Ethyl Benzene
Concen: 52.476 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

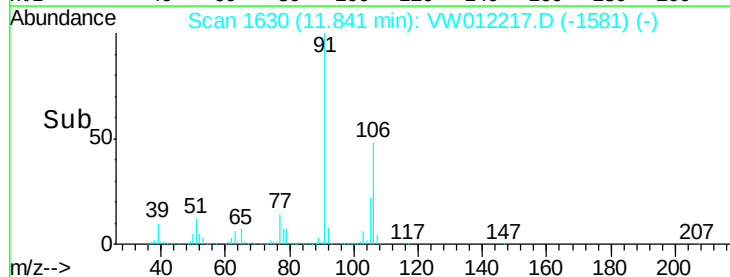
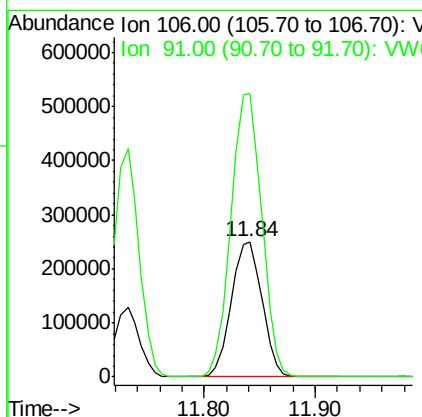
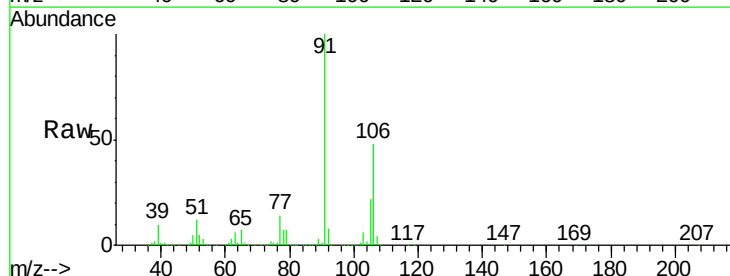
Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

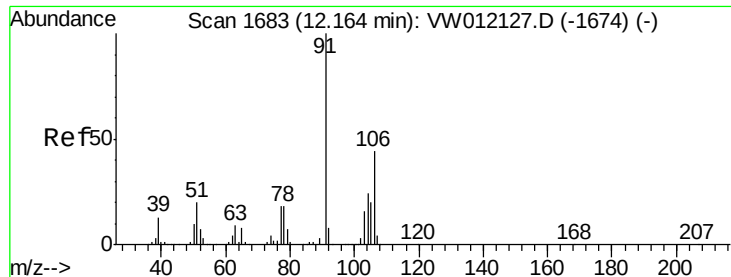
Tot Ion: 91 Resp: 671030
Ion Ratio Lower Upper
91 100
106 30.3 24.3 36.5



#68
m/p-Xylenes
Concen: 103.282 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion: 106 Resp: 475727
Ion Ratio Lower Upper
106 100
91 211.1 169.5 254.3

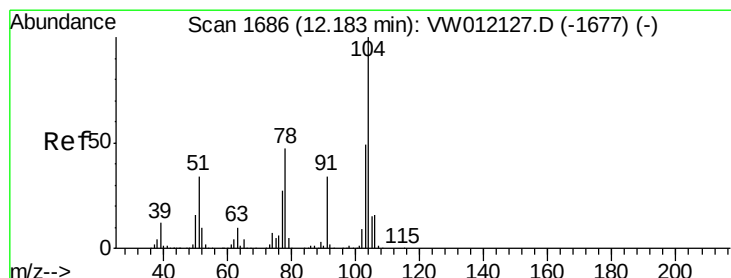
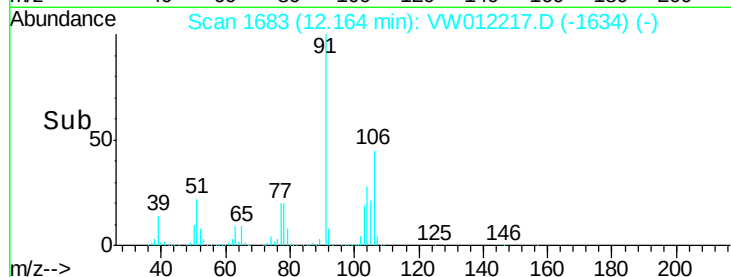
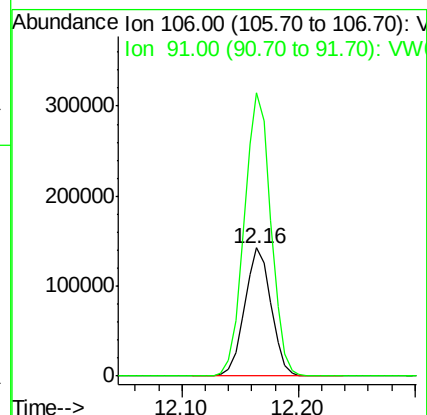
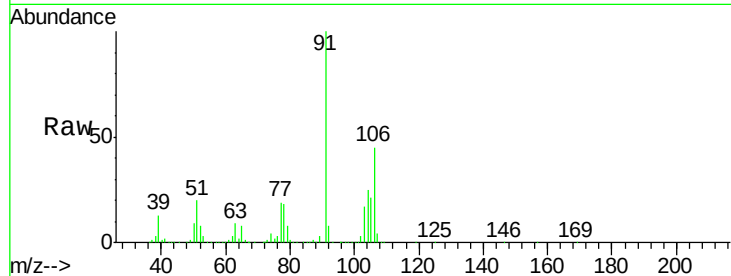




#69
o-Xylene
Concen: 52.987 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

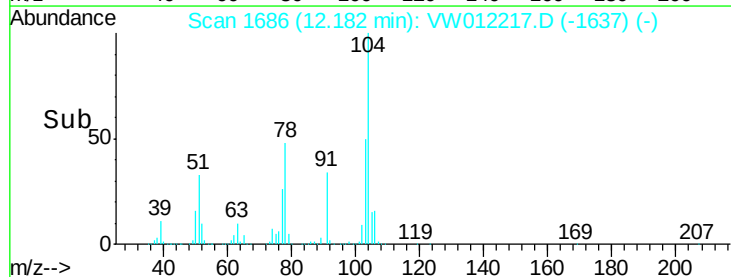
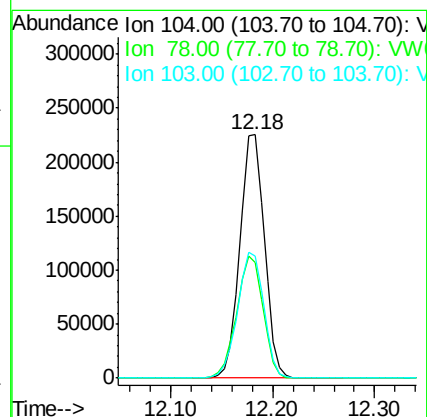
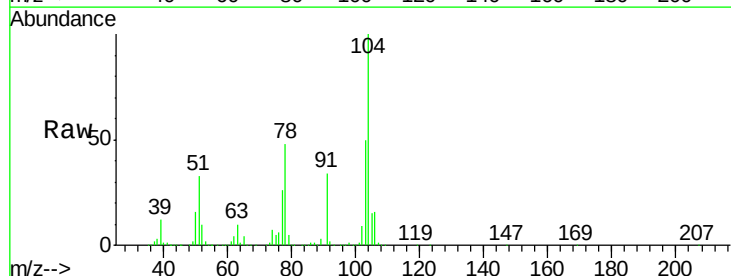
Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

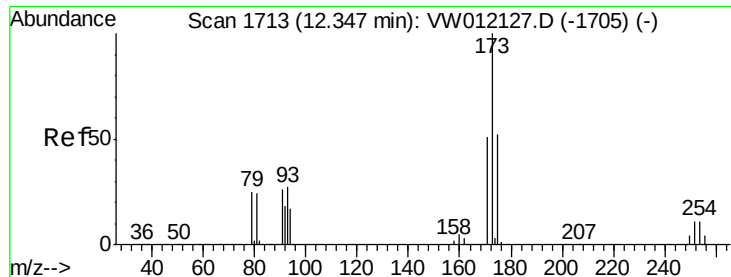
Tot Ion:106 Resp: 225891
Ion Ratio Lower Upper
106 100
91 222.7 111.6 334.6



#70
Styrene
Concen: 50.721 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion:104 Resp: 374274
Ion Ratio Lower Upper
104 100
78 53.9 43.1 64.7
103 55.2 43.5 65.3





#71

Bromoform

Concen: 55.635 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

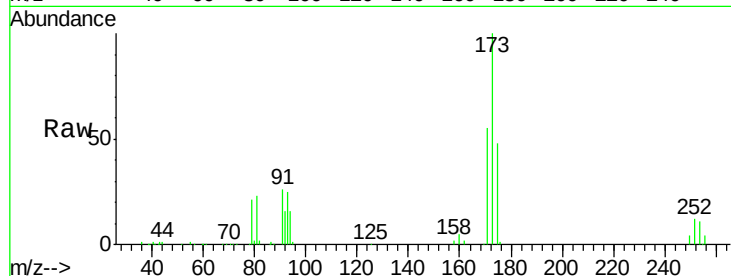
Tot Ion:173 Resp: 64191

Ion Ratio Lower Upper

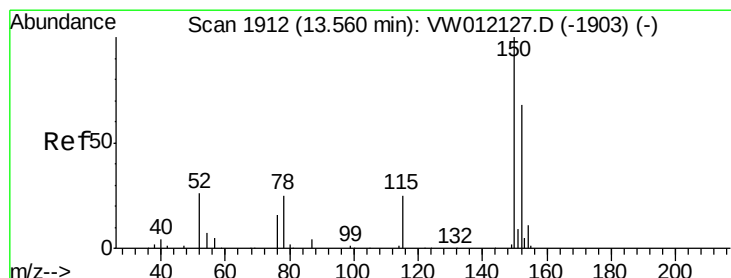
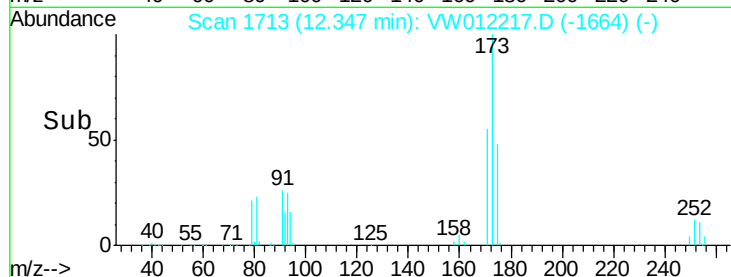
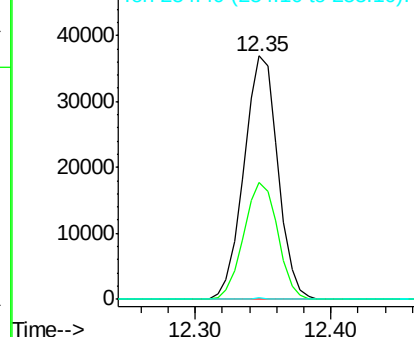
173 100

175 48.3 24.6 74.0

254 0.3 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

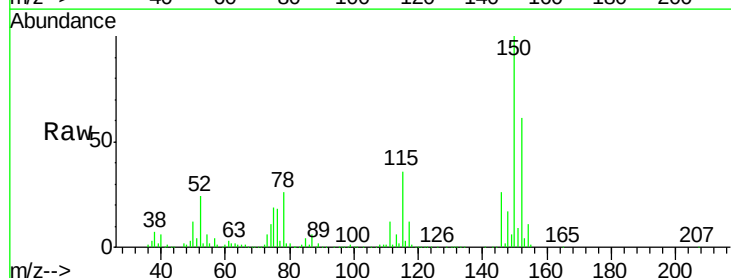
Tgt Ion:152 Resp: 141796

Ion Ratio Lower Upper

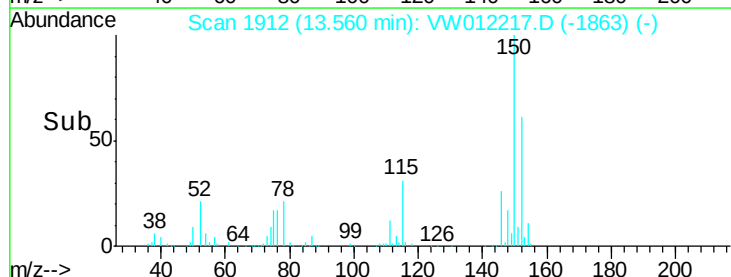
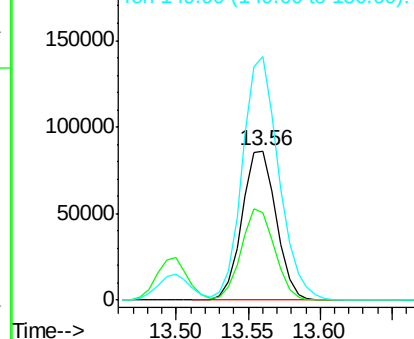
152 100

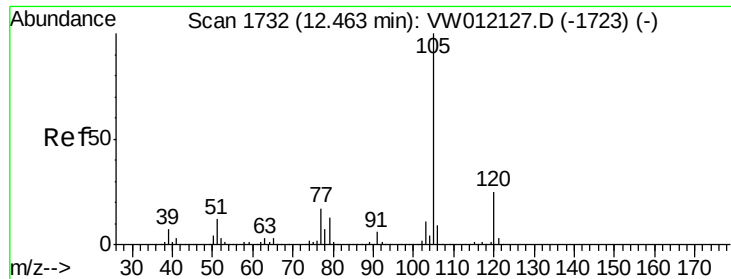
115 59.7 30.1 90.3

150 173.2 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 57.471 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

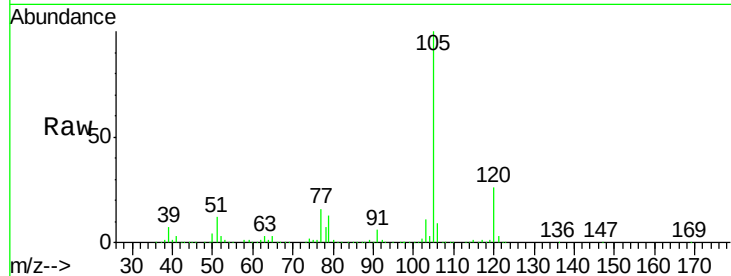
S402-K1-1.0-1.5-082619MS

Tot Ion:105 Resp: 610623

Ion Ratio Lower Upper

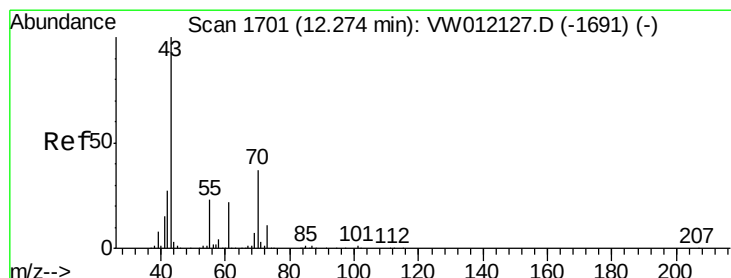
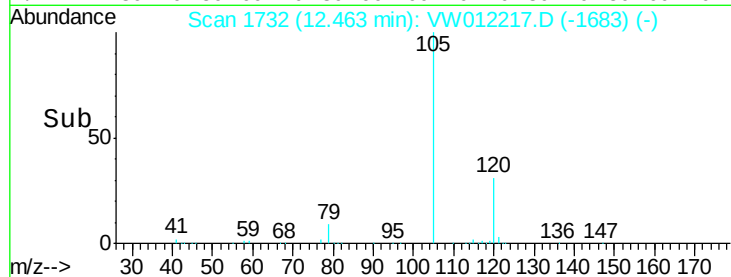
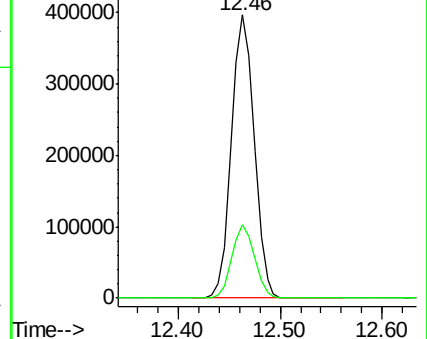
105 100

120 25.6 12.5 37.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 14.288 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Tgt Ion: 43 Resp: 45866

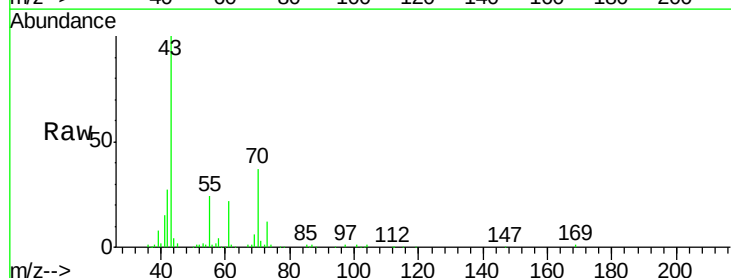
Ion Ratio Lower Upper

43 100

70 36.6 28.6 43.0

55 23.5 17.8 26.6

61 22.2 17.3 25.9

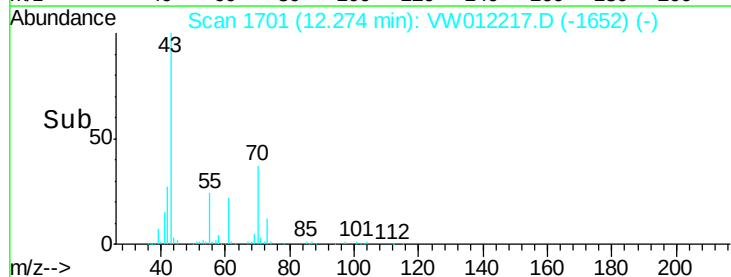
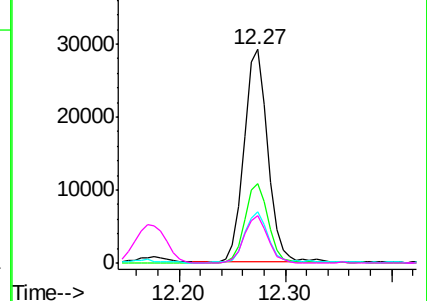


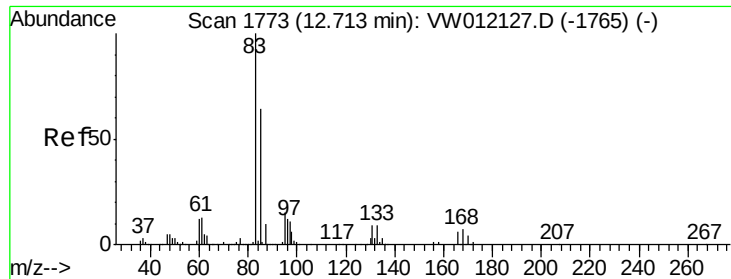
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 63.201 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

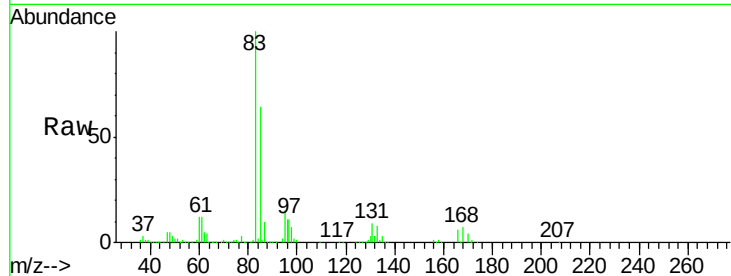
Tot Ion: 83 Resp: 123107

Ion Ratio Lower Upper

83 100

131 9.6 4.9 14.7

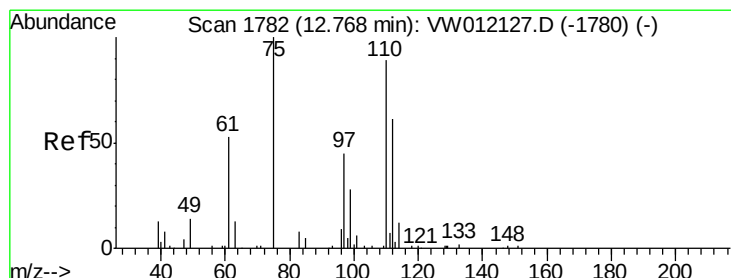
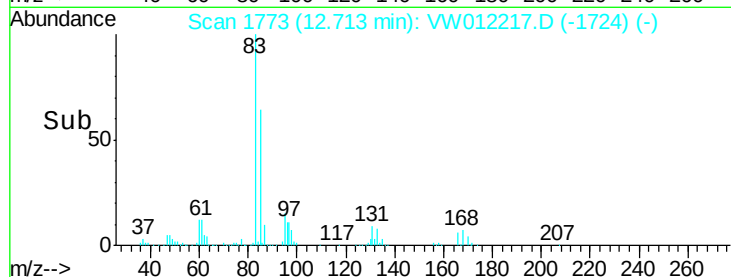
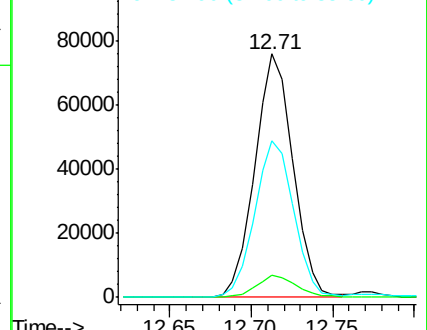
85 65.4 31.9 95.7



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 61.119 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW012217.D

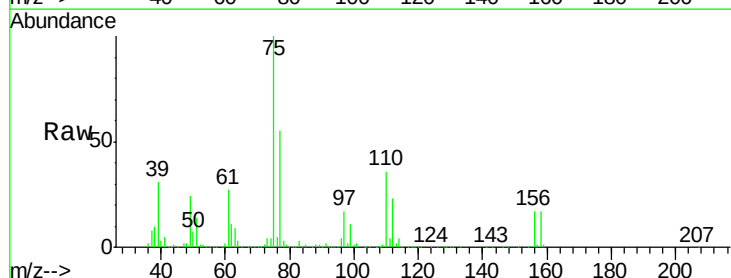
Acq: 27 Aug 2019 17:18

Tgt Ion: 75 Resp: 84405

Ion Ratio Lower Upper

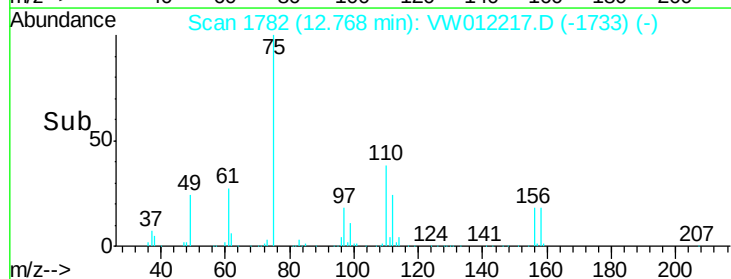
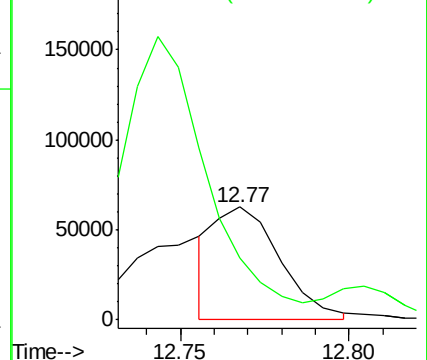
75 100

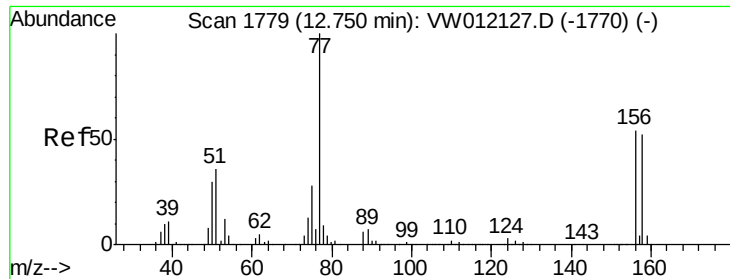
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

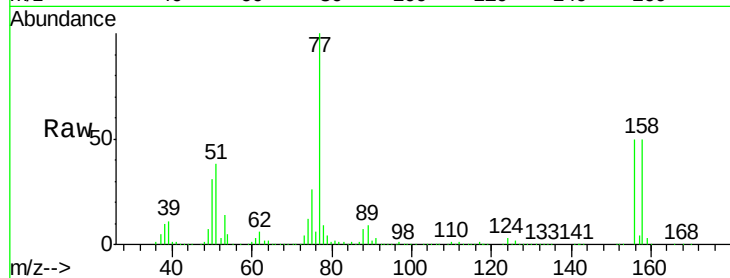




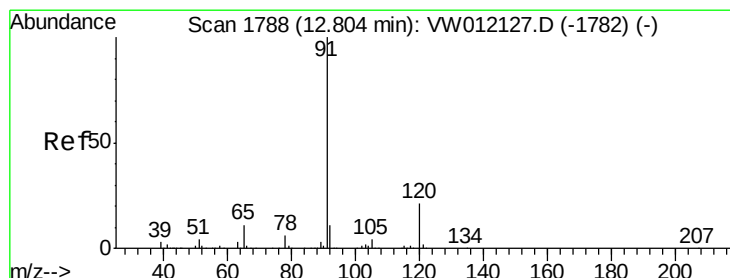
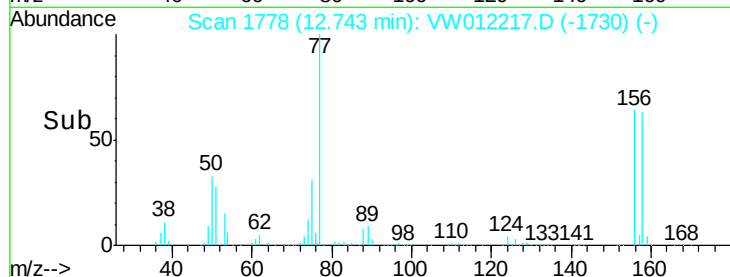
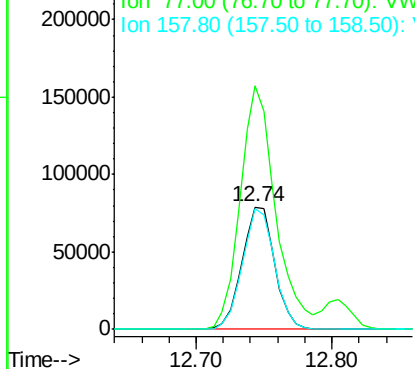
#77
Bromobenzene
Concen: 57.522 ug/l
RT: 12.74 min Scan# 1778
Delta R.T. -0.01 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

Tot Ion:156 Resp: 132220
Ion Ratio Lower Upper
156 100
77 215.2 107.3 321.8
158 97.6 49.0 147.0

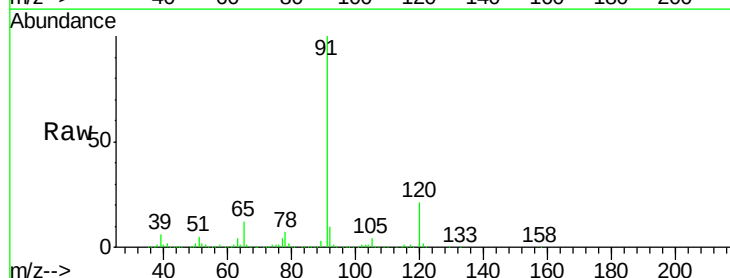


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VW
Ion 157.80 (157.50 to 158.50): V

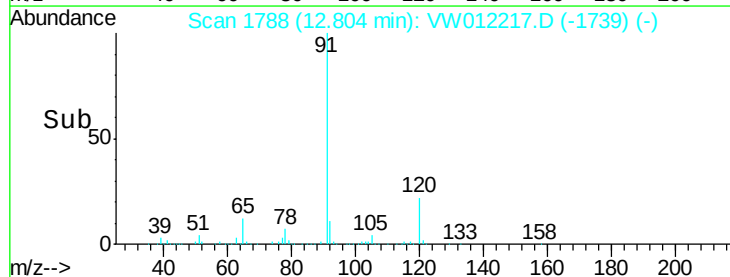
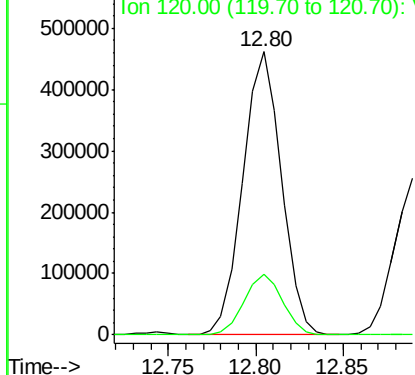


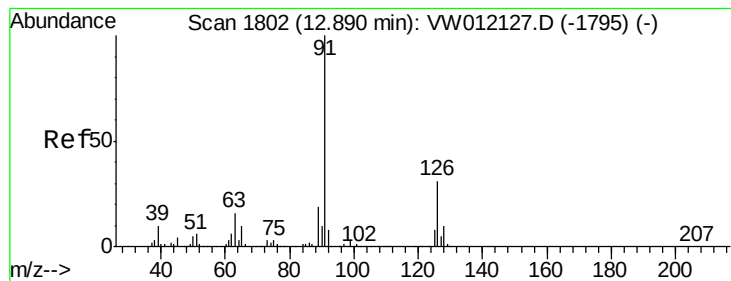
#78
n-propylbenzene
Concen: 54.419 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion: 91 Resp: 705871
Ion Ratio Lower Upper
91 100
120 21.5 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 55.227 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

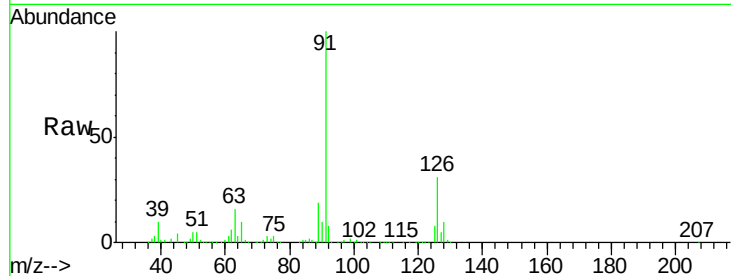
S402-K1-1.0-1.5-082619MS

Tot Ion: 91 Resp: 406699

Ion Ratio Lower Upper

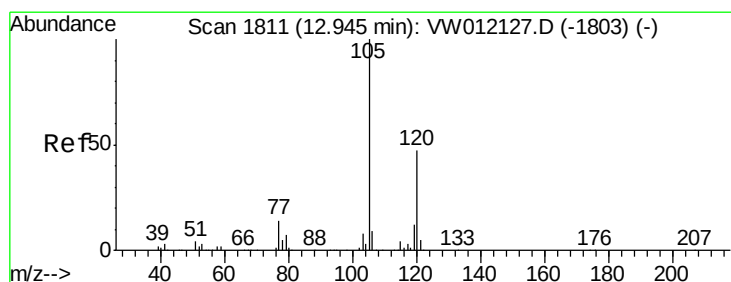
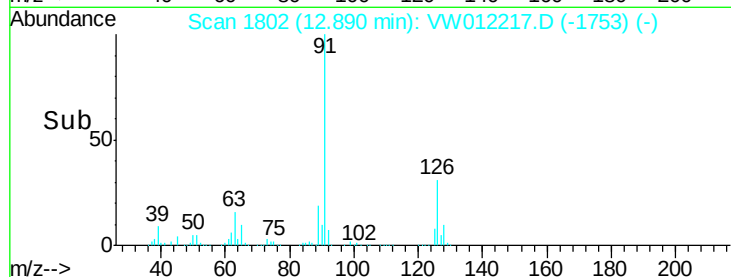
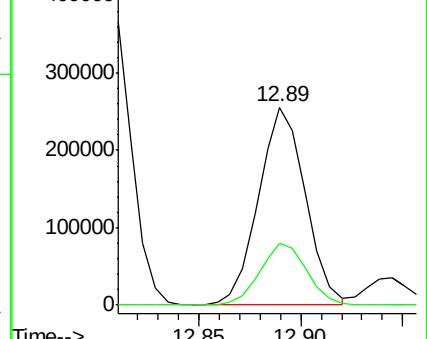
91 100

126 31.2 15.7 47.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 55.398 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW012217.D

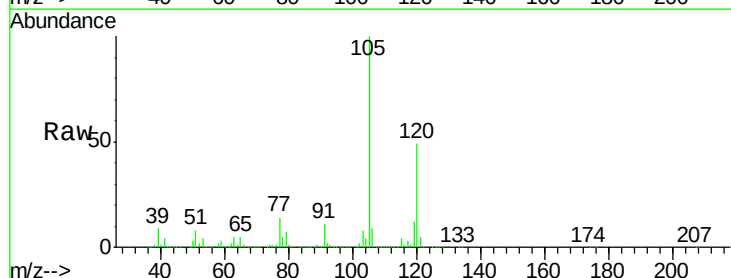
Acq: 27 Aug 2019 17:18

Tgt Ion:105 Resp: 491832

Ion Ratio Lower Upper

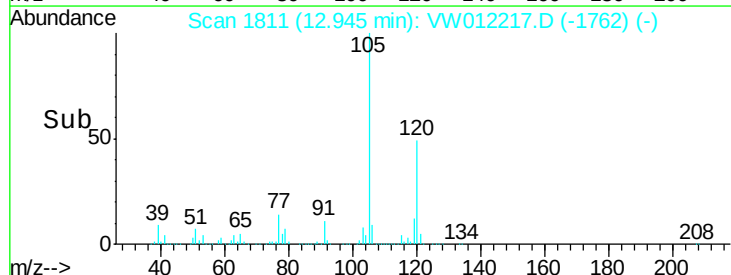
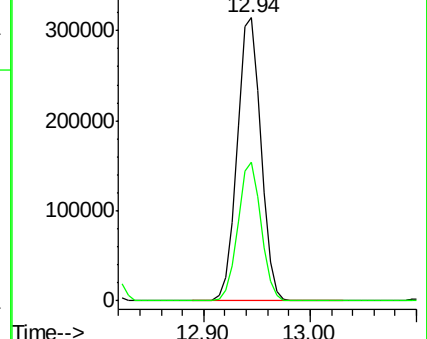
105 100

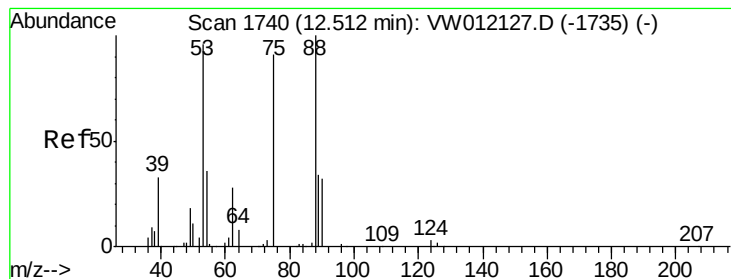
120 47.9 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 62.950 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

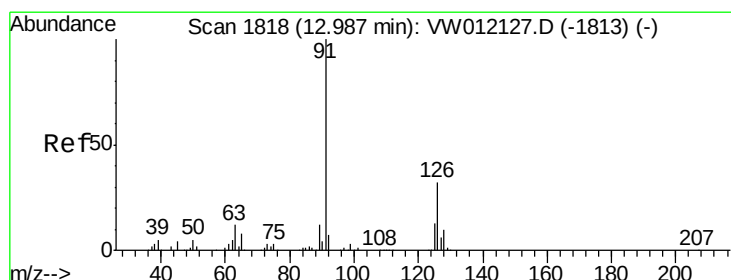
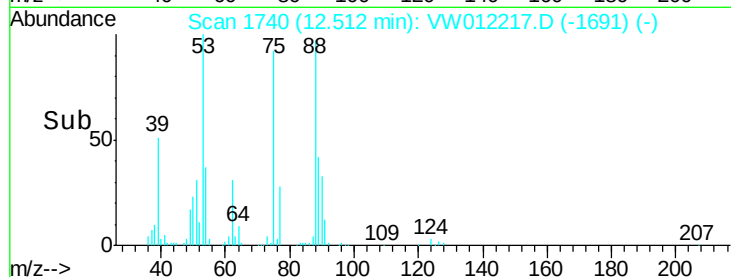
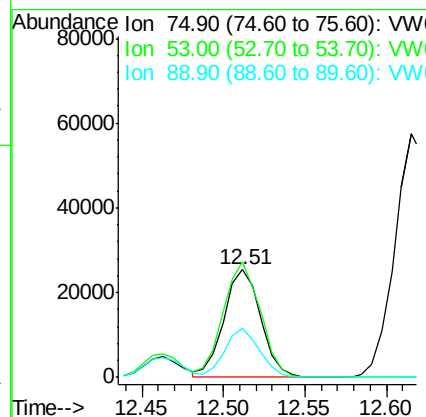
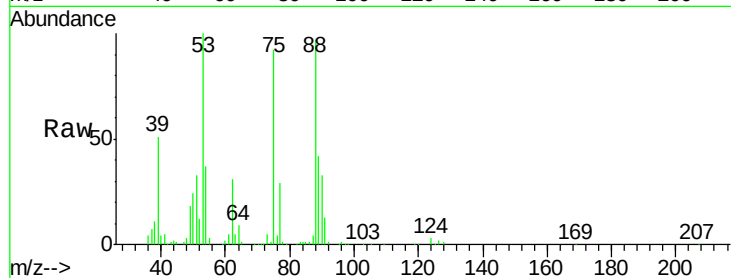
Tot Ion: 75 Resp: 39650

Ion Ratio Lower Upper

75 100

53 109.6 89.4 134.0

89 43.2 34.5 51.7



#82

4-Chlorotoluene

Concen: 54.038 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW012217.D

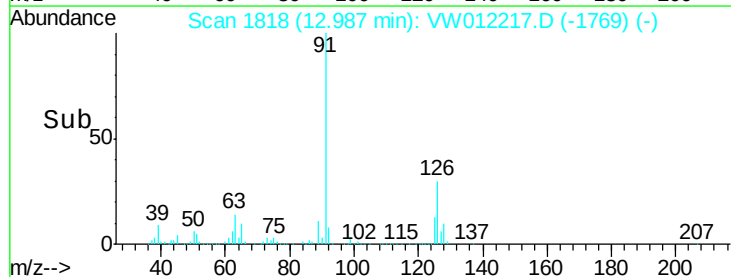
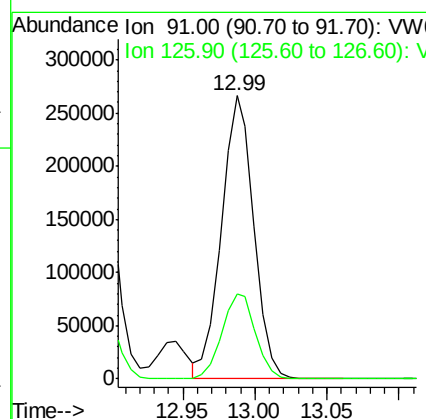
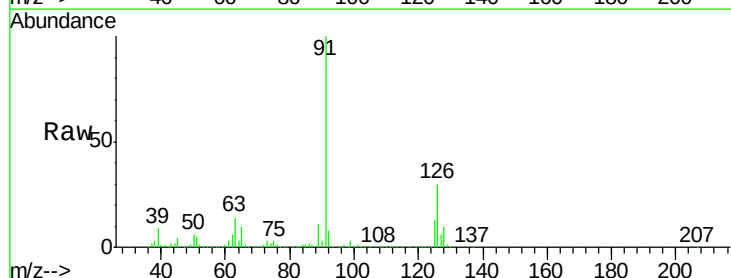
Acq: 27 Aug 2019 17:18

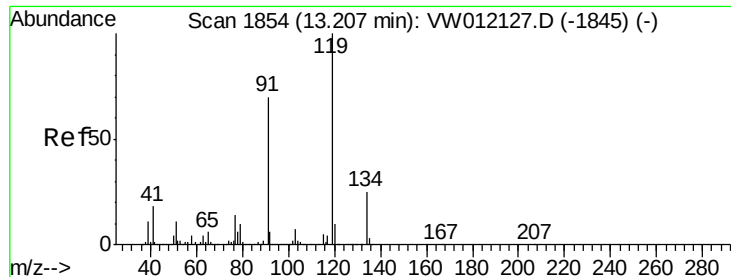
Tgt Ion: 91 Resp: 416676

Ion Ratio Lower Upper

91 100

126 31.1 15.6 46.8

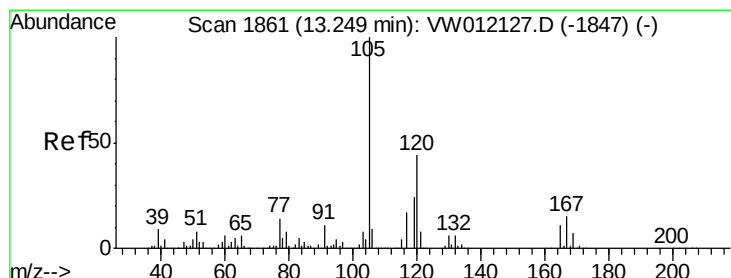
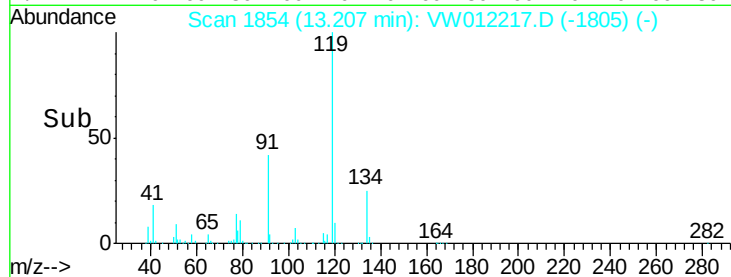
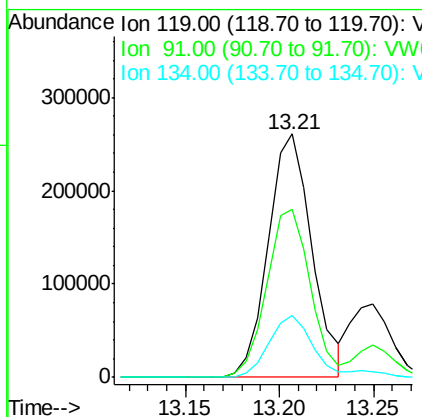
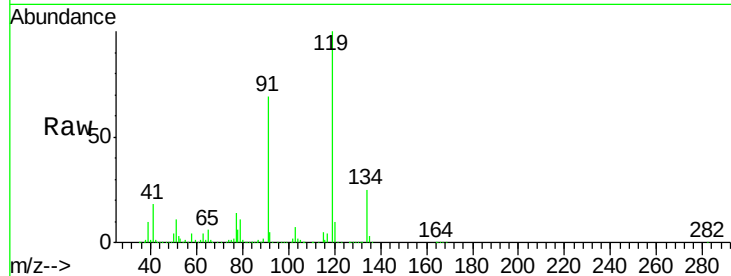




#83
 tert-Butylbenzene
 Concen: 55.778 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

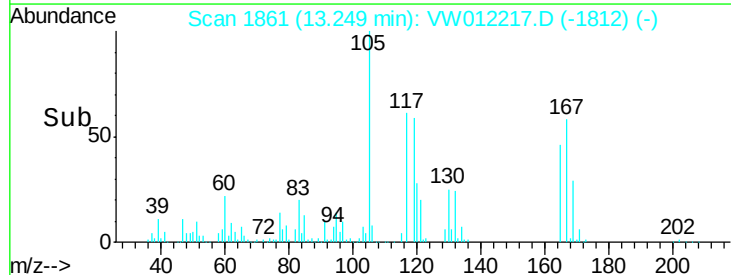
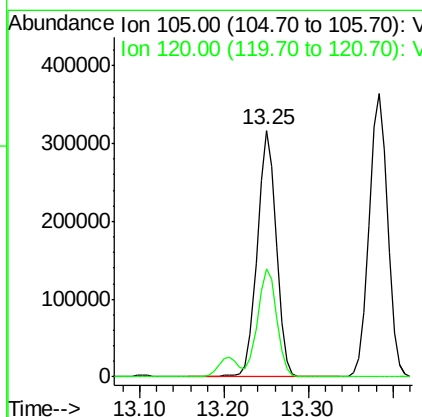
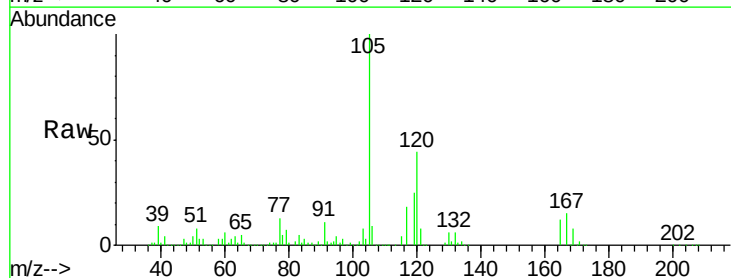
Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

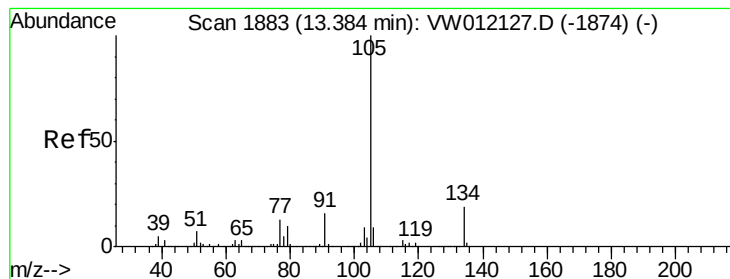
Tot Ion:119 Resp: 419484
 Ion Ratio Lower Upper
 119 100
 91 68.7 34.8 104.3
 134 26.9 13.3 39.8



#84
 1,2,4-Trimethylbenzene
 Concen: 54.676 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion:105 Resp: 487621
 Ion Ratio Lower Upper
 105 100
 120 43.8 21.9 65.7





#85

sec-Butylbenzene

Concen: 51.648 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

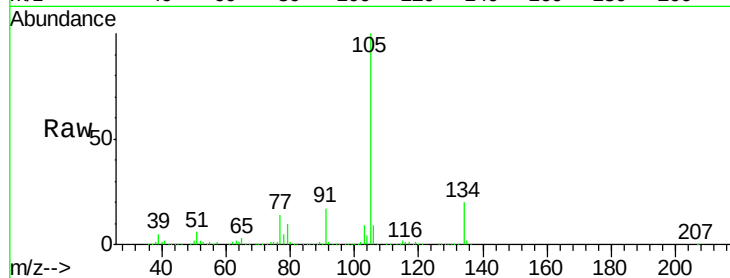
S402-K1-1.0-1.5-082619MS

Tot Ion:105 Resp: 556482

Ion Ratio Lower Upper

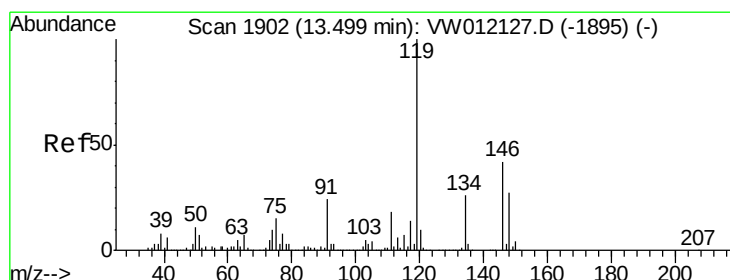
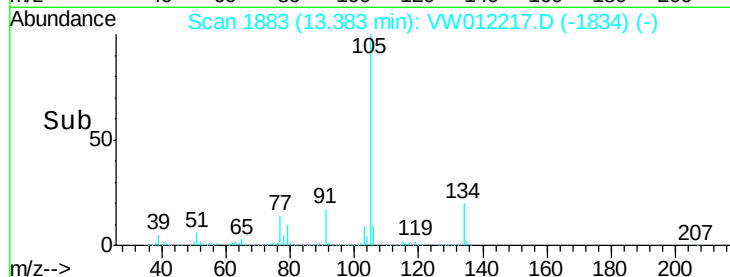
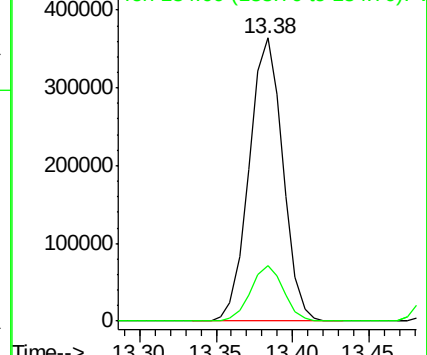
105 100

134 19.4 9.8 29.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.454 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

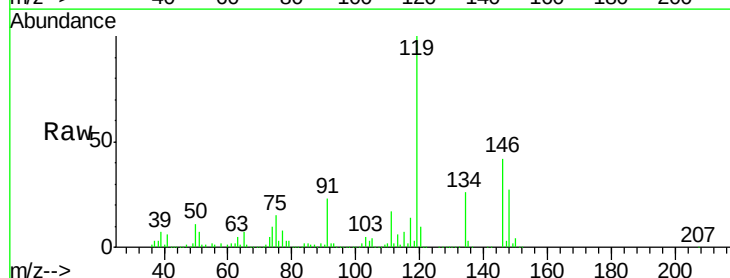
Tgt Ion:119 Resp: 495102

Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.3

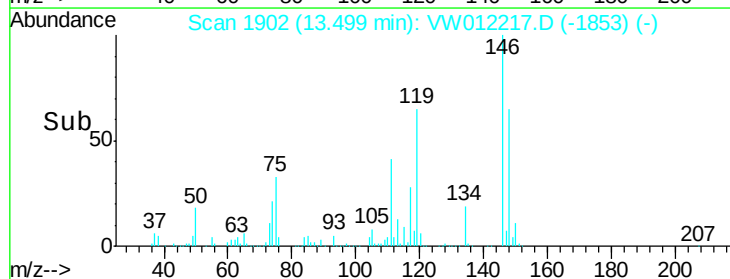
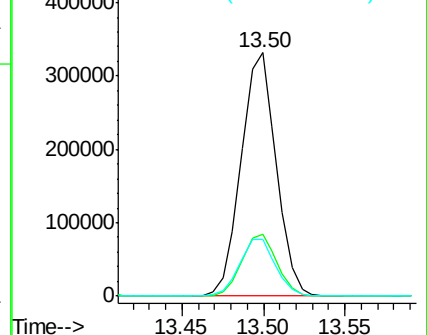
91 23.9 12.3 36.9

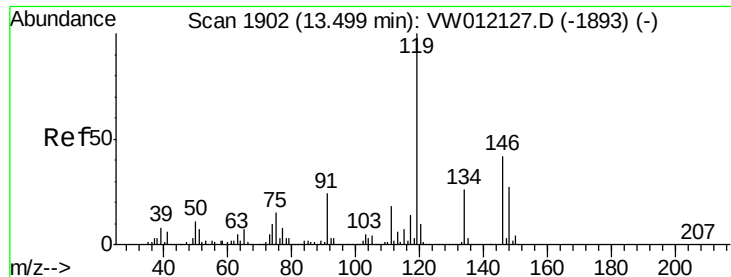


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 50.509 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

S402-K1-1.0-1.5-082619MS

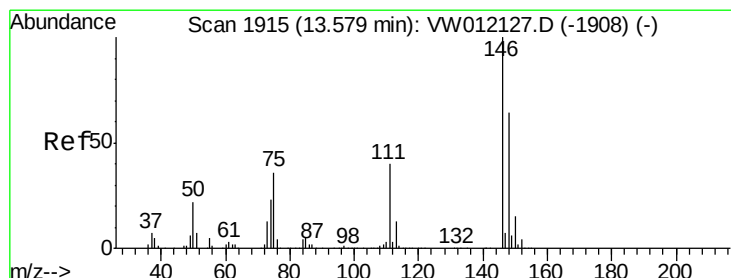
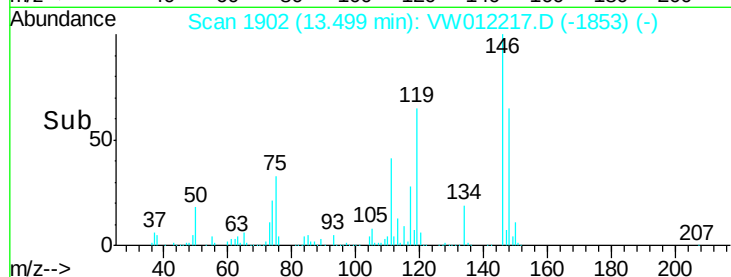
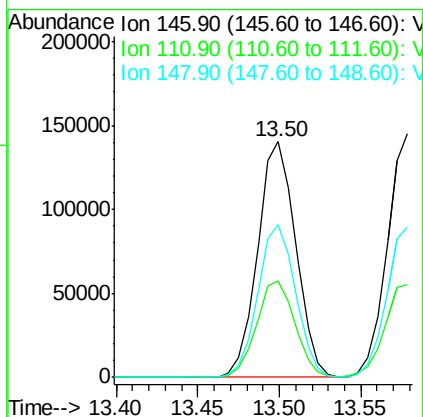
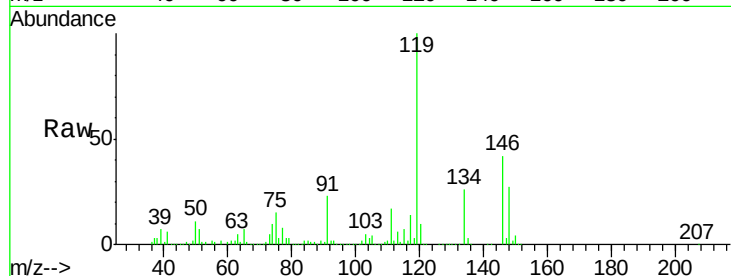
Tot Ion:146 Resp: 227089

Ion Ratio Lower Upper

146 100

111 41.3 20.9 62.7

148 64.4 32.2 96.6



#88

1,4-Dichlorobenzene

Concen: 50.642 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW012217.D

Acq: 27 Aug 2019 17:18

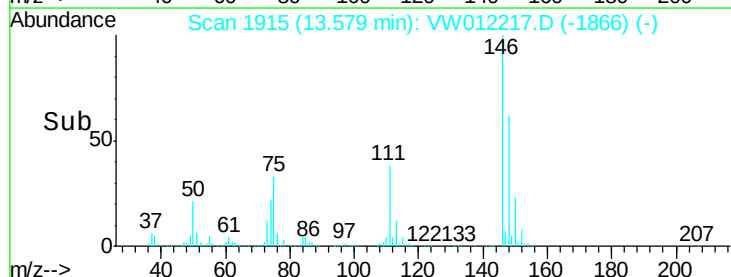
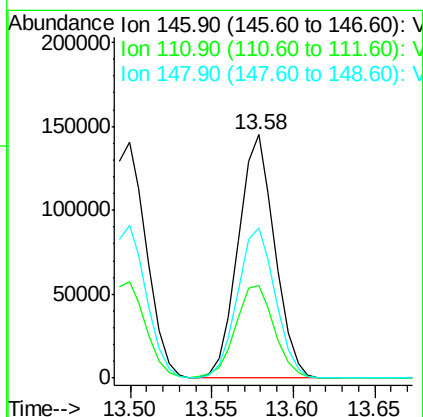
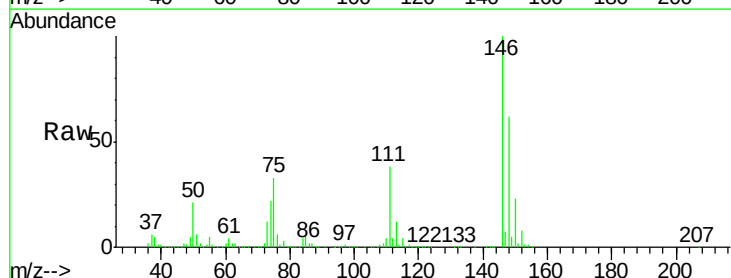
Tgt Ion:146 Resp: 226074

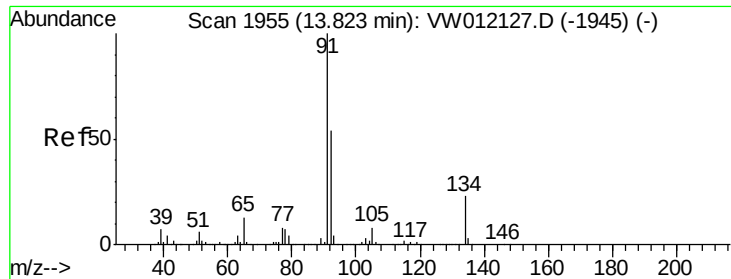
Ion Ratio Lower Upper

146 100

111 40.1 20.0 60.0

148 64.2 32.1 96.3

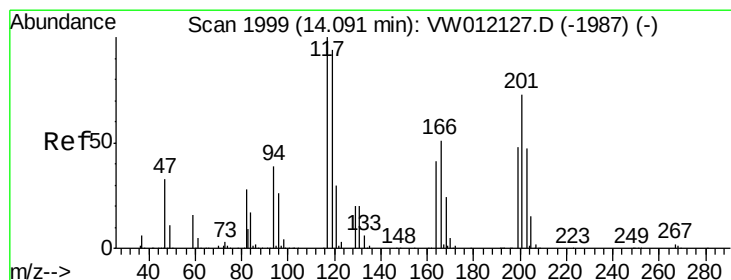
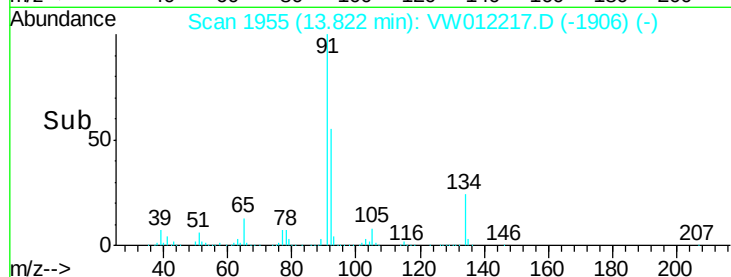
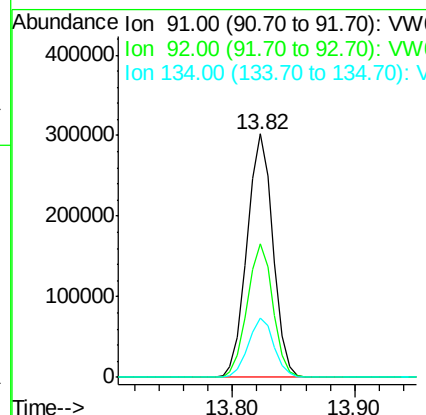
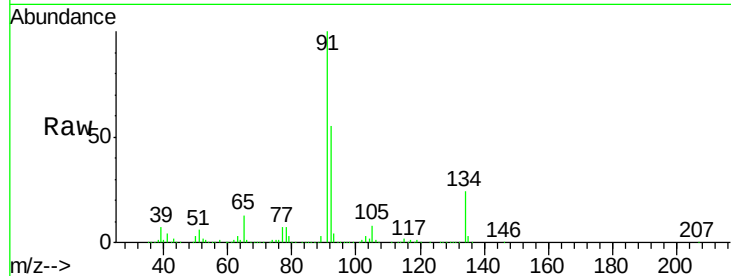




#89
n-Butylbenzene
Concen: 46.372 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

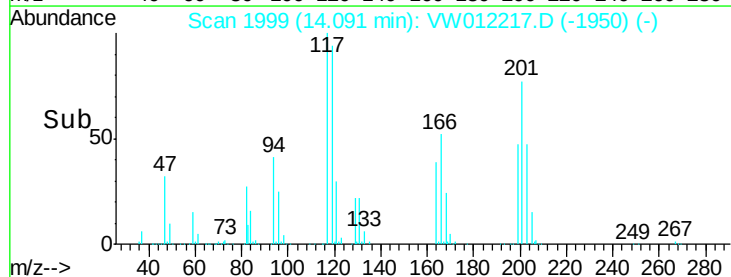
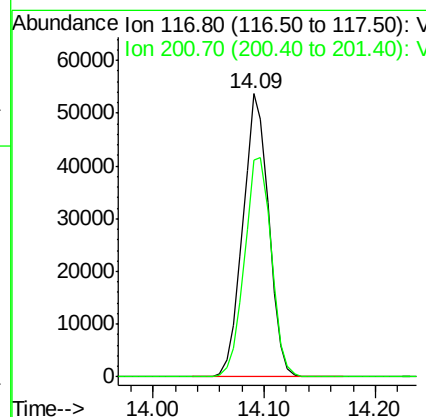
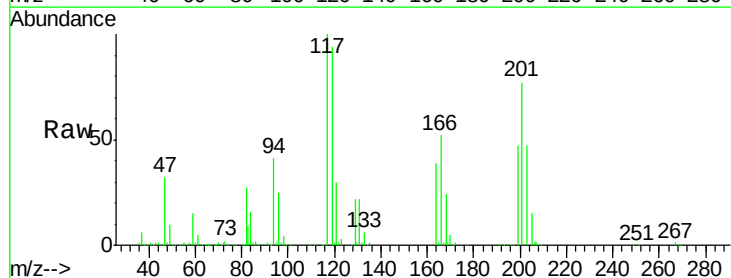
Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

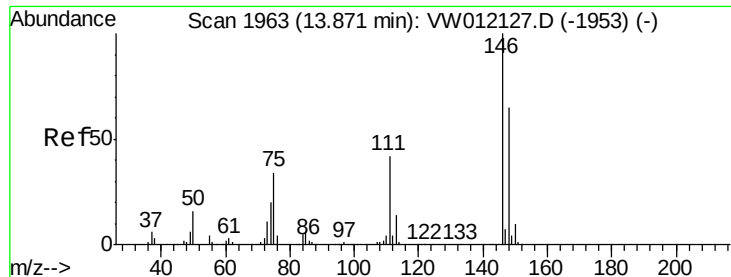
Tot Ion: 91 Resp: 443723
Ion Ratio Lower Upper
91 100
92 54.6 27.1 81.2
134 24.4 12.2 36.4



#90
Hexachloroethane
Concen: 51.122 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion: 117 Resp: 86305
Ion Ratio Lower Upper
117 100
201 80.6 38.6 115.7

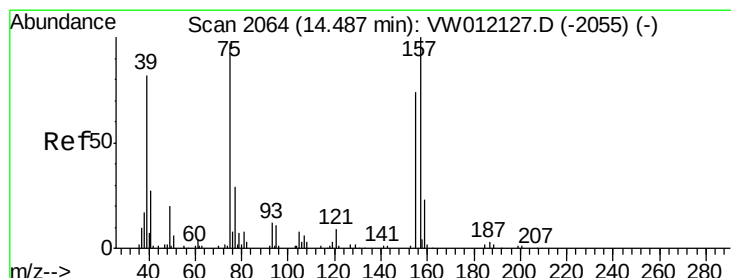
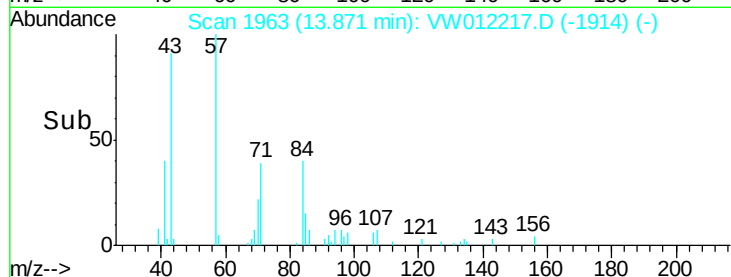
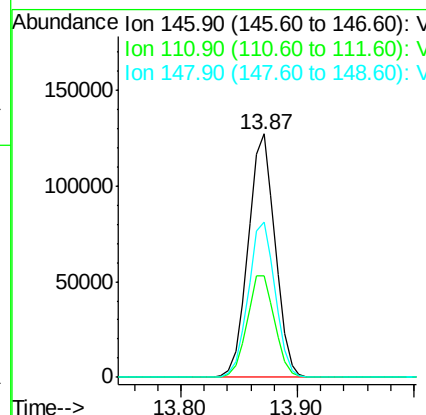
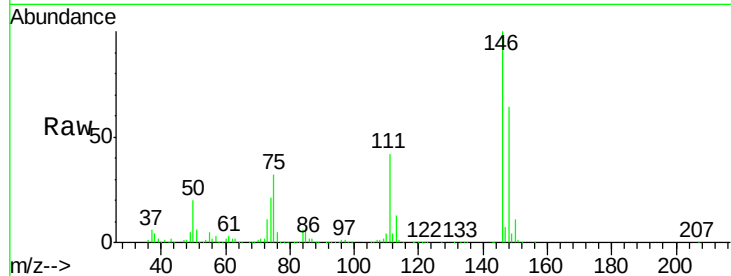




#91
 1,2-Dichlorobenzene
 Concen: 52.000 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

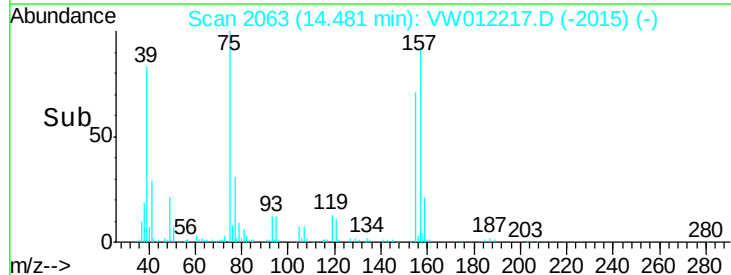
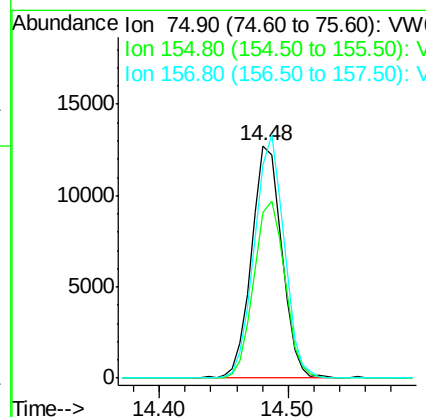
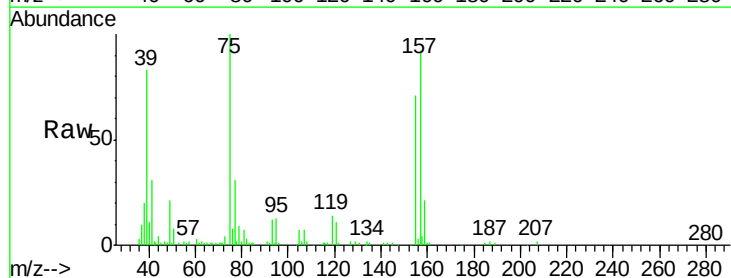
Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

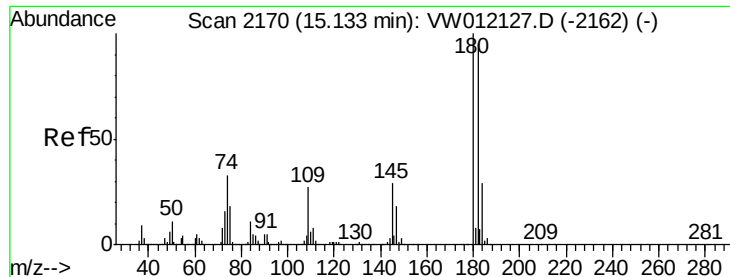
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.2	63.6
148	64.0	32.5	97.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 62.574 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.01 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.3	37.5	112.3
157	102.5	50.5	151.5

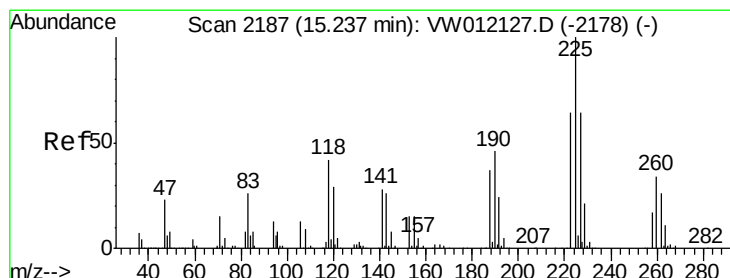
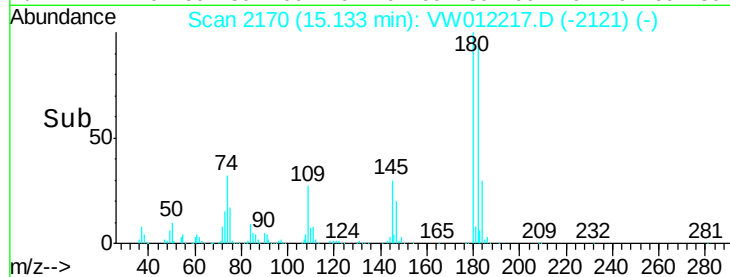
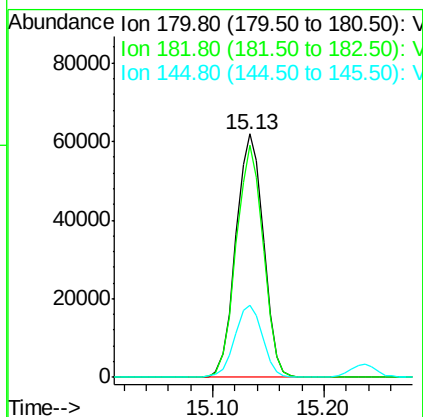
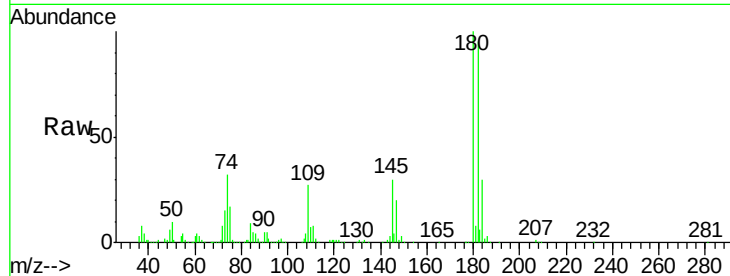




#93
 1,2,4-Trichlorobenzene
 Concen: 38.822 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

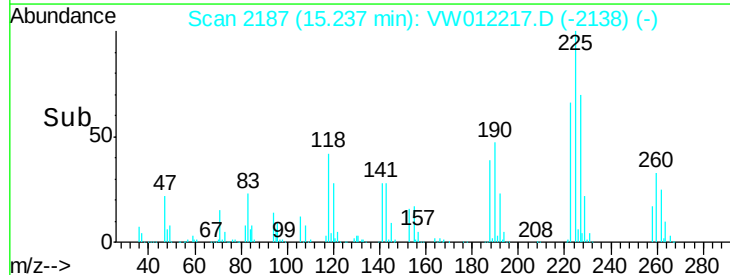
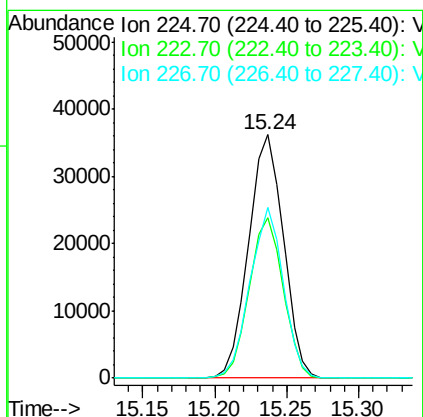
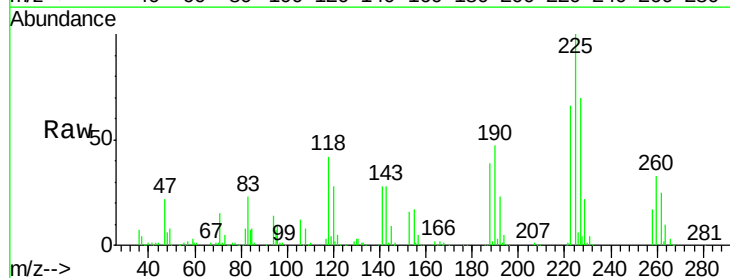
Instrument :
 MSVOA_W
 ClientSampleId :
 S402-K1-1.0-1.5-082619MS

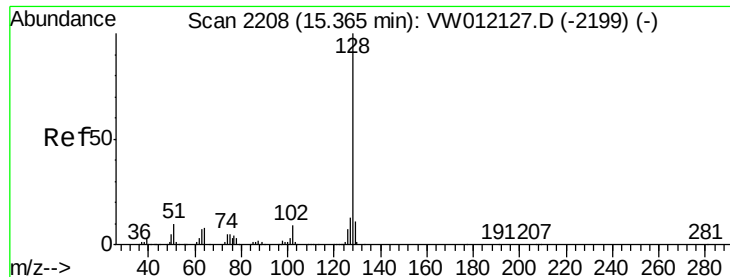
Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.8	143.4
145	29.8	15.0	45.1



#94
 Hexachlorobutadiene
 Concen: 33.642 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW012217.D
 Acq: 27 Aug 2019 17:18

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	32.3	96.8
227	67.0	32.9	98.6

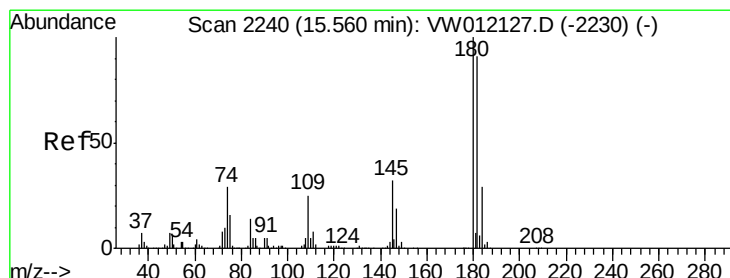
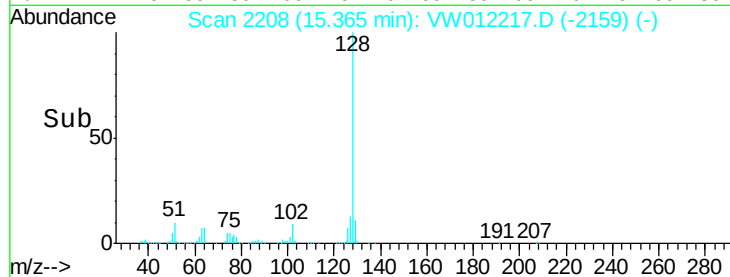
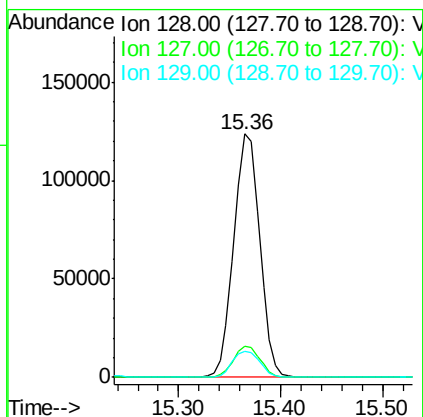
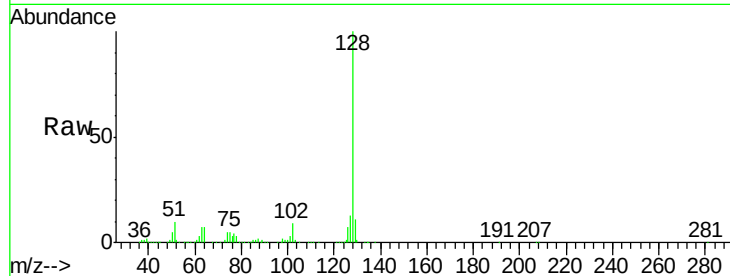




#95
Naphthalene
Concen: 41.660 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Instrument :
MSVOA_W
ClientSampleId :
S402-K1-1.0-1.5-082619MS

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.7	16.1
129	11.4	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 36.127 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.01 min
Lab File: VW012217.D
Acq: 27 Aug 2019 17:18

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.1	141.3
145	32.2	16.2	48.5

