

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW030920\
 Data File : VW015094.D
 Acq On : 09 Mar 2020 11:28
 Operator : SY/VA
 Sample : VSTDIC020
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

Quant Time: Mar 09 18:37:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030920S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 09 18:33:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	442786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	799194	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	721450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	333472	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	125930	19.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.68%	
35) Dibromofluoromethane	7.88	113	95821	20.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.06%	
50) Toluene-d8	10.32	98	399733	19.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.90%	
62) 4-Bromofluorobenzene	12.62	95	129450	19.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	57736	21.50	ug/l	96
3) Chloromethane	2.21	50	118589	20.58	ug/l	99
4) Vinyl Chloride	2.36	62	159506	21.15	ug/l	98
5) Bromomethane	2.76	94	89300	20.71	ug/l	100
6) Chloroethane	2.92	64	89893	20.58	ug/l	96
7) Trichlorofluoromethane	3.26	101	76306	20.22	ug/l	99
8) Diethyl Ether	3.68	74	56699	19.71	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	118757	20.64	ug/l	99
10) Methyl Iodide	4.27	142	130560	20.40	ug/l	100
11) Tert butyl alcohol	5.17	59	34147	91.26	ug/l	99
12) 1,1-Dichloroethene	4.04	96	115498	20.53	ug/l	95
13) Acrolein	3.89	56	55117	100.72	ug/l	96
14) Allyl chloride	4.67	41	225496	20.00	ug/l	99
15) Acrylonitrile	5.36	53	144258	97.85	ug/l	98
16) Acetone	4.12	43	138868	93.53	ug/l	100
17) Carbon Disulfide	4.38	76	411538	20.63	ug/l	99
18) Methyl Acetate	4.67	43	71978	20.45	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	143900	19.98	ug/l	99
20) Methylene Chloride	4.92	84	136833	19.91	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	120308	20.14	ug/l	98
22) Diisopropyl ether	6.31	45	454036	20.99	ug/l	98
23) Vinyl Acetate	6.25	43	1263223	98.92	ug/l	99
24) 1,1-Dichloroethane	6.21	63	256491	20.33	ug/l	98
25) 2-Butanone	7.17	43	191613	94.13	ug/l	97
26) 2,2-Dichloropropane	7.16	77	144923	20.09	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	125523	20.19	ug/l	98
28) Bromochloromethane	7.51	49	116499	19.27	ug/l	100
29) Tetrahydrofuran	7.52	42	123921	97.33	ug/l	99
30) Chloroform	7.68	83	229953	20.54	ug/l	99
31) Cyclohexane	7.95	56	261417	20.15	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	178568	20.43	ug/l	99
36) 1,1-Dichloropropene	8.08	75	196505	21.20	ug/l	99
37) Ethyl Acetate	7.25	43	91911	19.90	ug/l	99
38) Carbon Tetrachloride	8.07	117	155983	20.67	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	215659	20.35	ug/l	97
40) Benzene	8.32	78	541160	21.01	ug/l	100
41) Methacrylonitrile	7.48	41	50438	20.65	ug/l	94
42) 1,2-Dichloroethane	8.40	62	162701	20.73	ug/l	100
43) Isopropyl Acetate	8.42	43	162416	19.61	ug/l	98
44) Trichloroethene	9.09	130	112593	20.54	ug/l	99
45) 1,2-Dichloropropane	9.37	63	144568	20.84	ug/l	99
46) Dibromomethane	9.46	93	63159	20.94	ug/l	99
47) Bromodichloromethane	9.64	83	166448	20.67	ug/l	99
48) Methyl methacrylate	9.43	41	72604	19.00	ug/l	97
49) 1,4-Dioxane	9.45	88	18631	403.47	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	438158	95.79	ug/l	99
52) Toluene	10.38	92	308402	20.84	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	160300	20.24	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	196350	20.35	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	84096	20.35	ug/l	99
56) Ethyl methacrylate	10.65	69	102450	19.21	ug/l	99
57) 1,3-Dichloropropane	10.93	76	160171	20.36	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	312314	99.82	ug/l	100
59) 2-Hexanone	10.96	43	278279	97.40	ug/l	97
60) Dibromochloromethane	11.13	129	86472	20.26	ug/l	99
61) 1,2-Dibromoethane	11.23	107	74274	20.27	ug/l	100
64) Tetrachloroethene	10.86	164	85059	20.43	ug/l	94
65) Chlorobenzene	11.66	112	298724	20.63	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	96354	19.98	ug/l	97
67) Ethyl Benzene	11.73	91	573398	20.35	ug/l	99
68) m/p-Xylenes	11.83	106	417949	41.96	ug/l	99
69) o-Xylene	12.16	106	183881	20.49	ug/l	100
70) Styrene	12.18	104	317294	20.64	ug/l	99
71) Bromoform	12.35	173	41293	19.30	ug/l #	94
73) Isopropylbenzene	12.46	105	516946	20.29	ug/l	99
74) N-amyl acetate	12.27	43	141980	18.86	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	101817	19.68	ug/l	98
76) 1,2,3-Trichloropropane	12.76	75	133685	21.63	ug/l #	100
77) Bromobenzene	12.74	156	101334	20.13	ug/l	98
78) n-propylbenzene	12.80	91	684911	20.69	ug/l	100
79) 2-Chlorotoluene	12.89	91	380844	20.46	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	453747	20.72	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	31754	19.03	ug/l	96
82) 4-Chlorotoluene	12.99	91	408954	20.63	ug/l	100
83) tert-Butylbenzene	13.20	119	355759	20.05	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	458611	20.94	ug/l	98
85) sec-Butylbenzene	13.38	105	551564	20.54	ug/l	100
86) p-Isopropyltoluene	13.49	119	473049	20.49	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	218805	20.51	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	215703	20.53	ug/l	98
89) n-Butylbenzene	13.82	91	501058	20.13	ug/l	100
90) Hexachloroethane	14.09	117	90295	19.51	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	189508	20.28	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	16228	19.54	ug/l	97

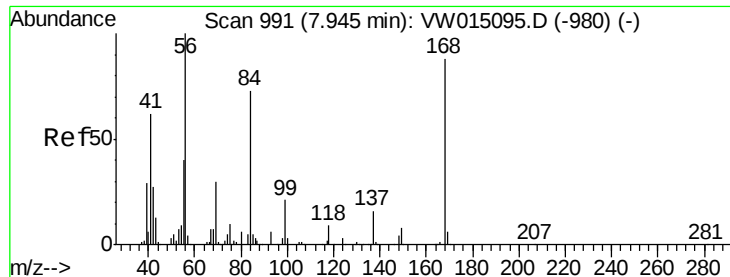
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	109266	20.44	ug/l	97
94) Hexachlorobutadiene	15.23	225	69445	20.69	ug/l	97
95) Naphthalene	15.36	128	186221	18.65	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	99011	20.88	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

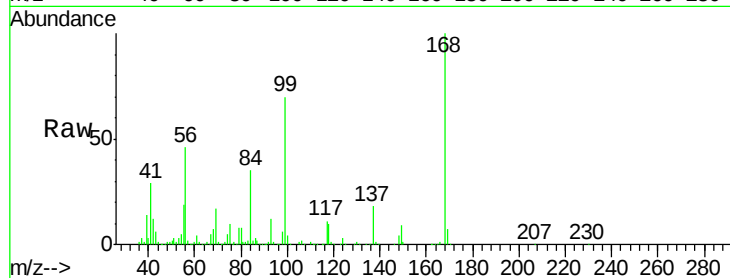
VSTDIC020

Tgt Ion:168 Resp: 442786

Ion Ratio Lower Upper

168 100

99 69.4 57.2 85.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

100000

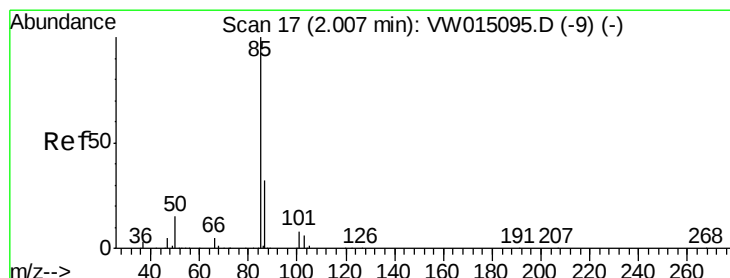
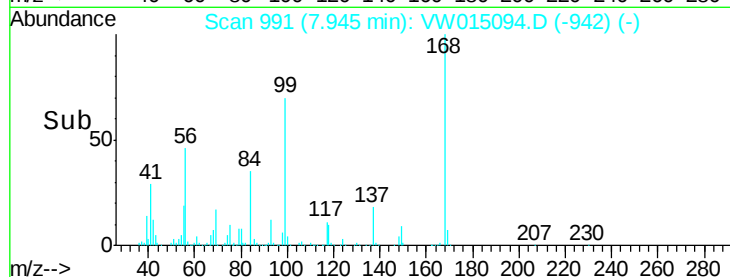
50000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 21.50 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW015094.D

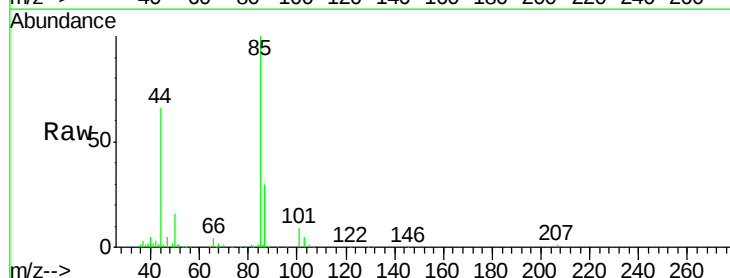
Acq: 09 Mar 2020 11:28

Tgt Ion: 85 Resp: 57736

Ion Ratio Lower Upper

85 100

87 29.9 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

20000

15000

10000

5000

0

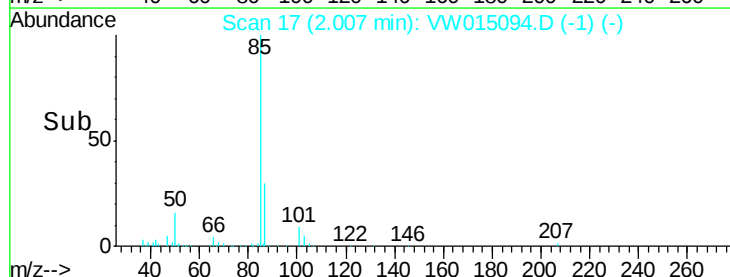
1.90

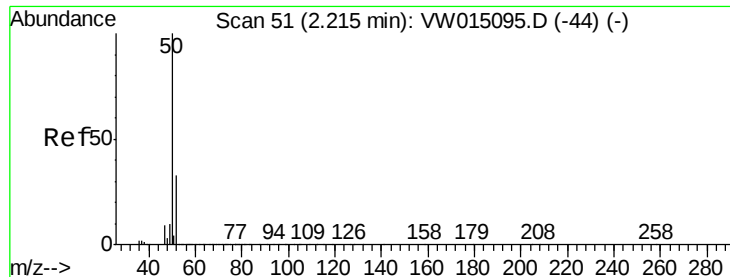
2.00

2.10

2.20

Time-->





#3

Chloromethane

Concen: 20.58 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

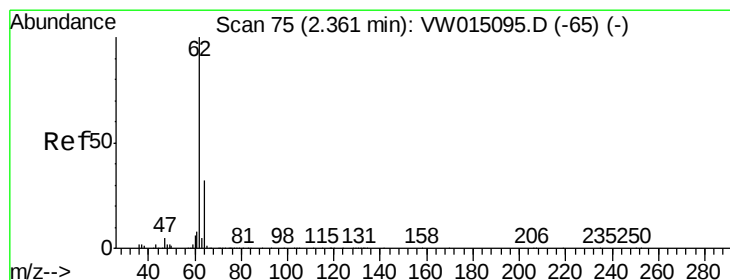
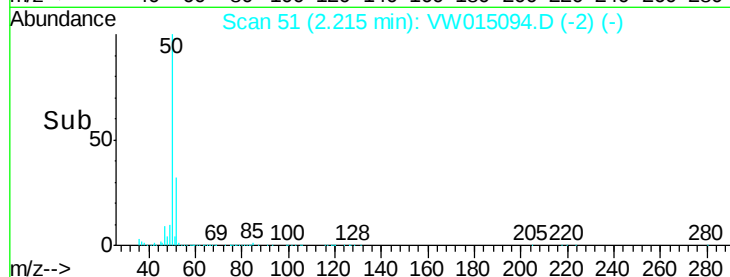
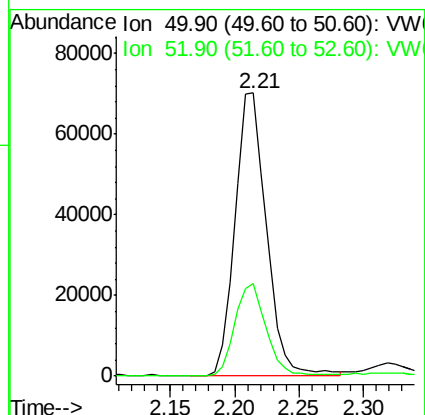
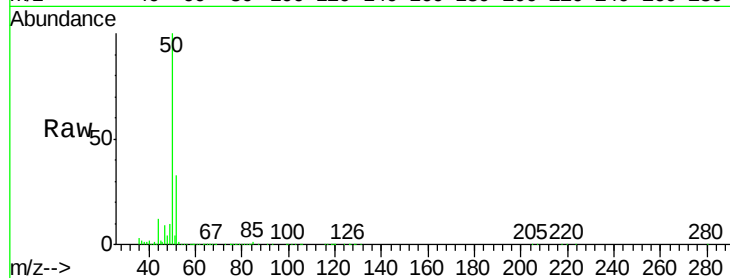
VSTDIC020

Tgt Ion: 50 Resp: 118589

Ion Ratio Lower Upper

50 100

52 32.8 26.6 40.0



#4

Vinyl Chloride

Concen: 21.15 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW015094.D

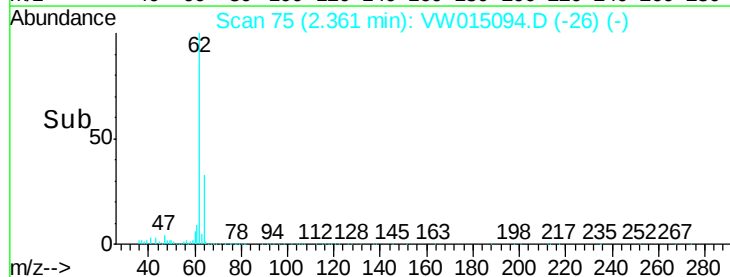
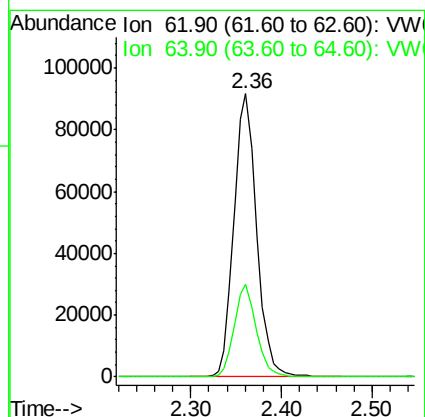
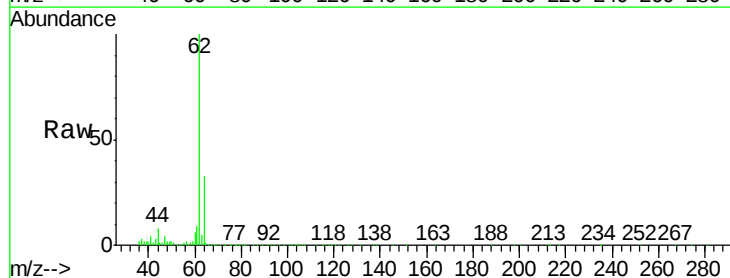
Acq: 09 Mar 2020 11:28

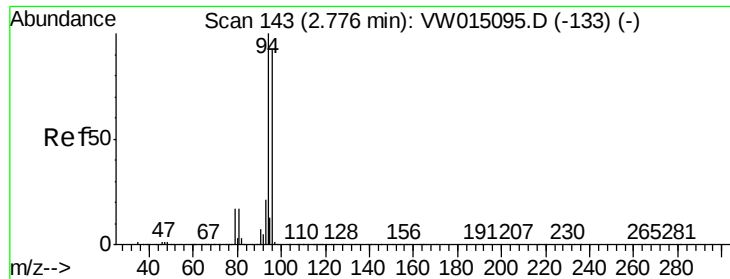
Tgt Ion: 62 Resp: 159506

Ion Ratio Lower Upper

62 100

64 32.8 25.3 37.9





#5

Bromomethane

Concen: 20.71 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

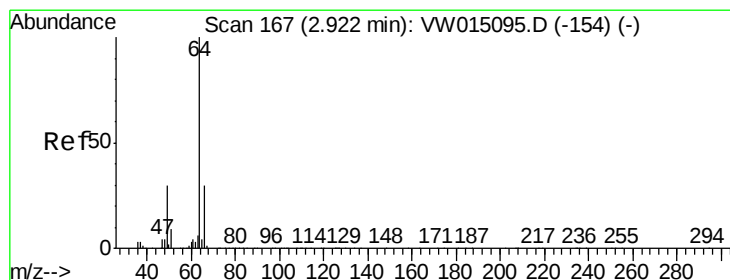
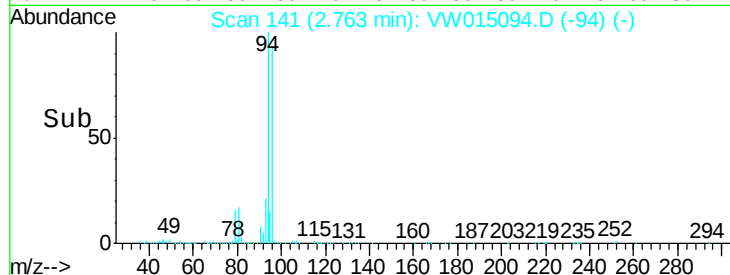
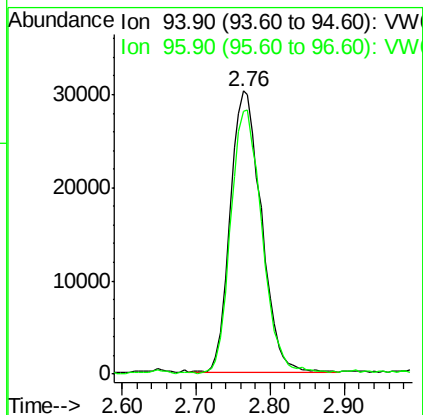
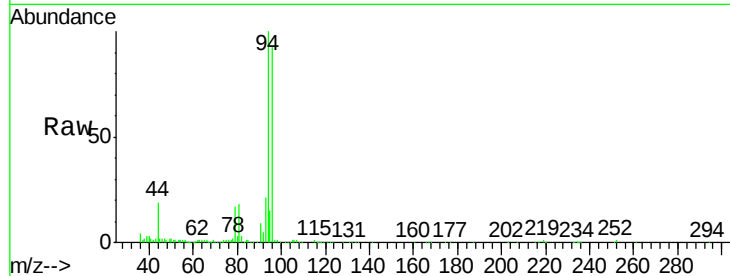
VSTDIC020

Tgt Ion: 94 Resp: 89300

Ion Ratio Lower Upper

94 100

96 92.9 74.0 111.0



#6

Chloroethane

Concen: 20.58 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW015094.D

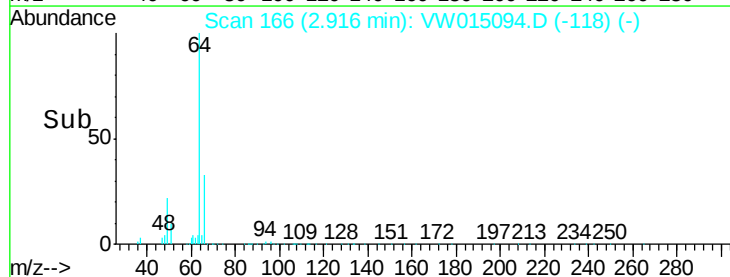
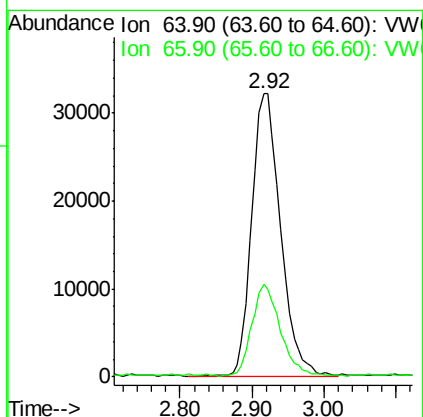
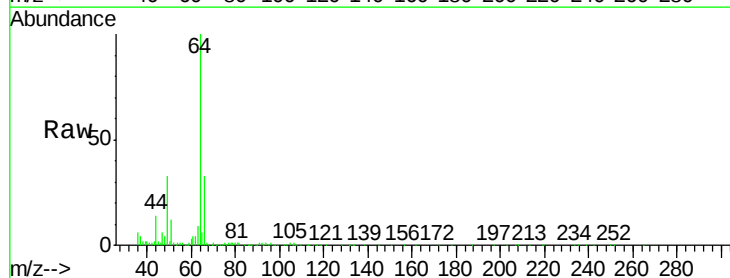
Acq: 09 Mar 2020 11:28

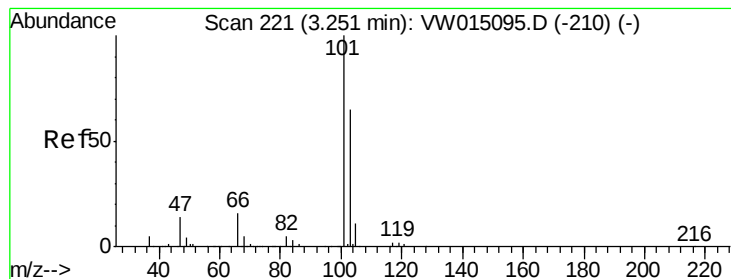
Tgt Ion: 64 Resp: 89893

Ion Ratio Lower Upper

64 100

66 32.4 24.2 36.2





#7

Trichlorofluoromethane

Concen: 20.22 ug/l

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

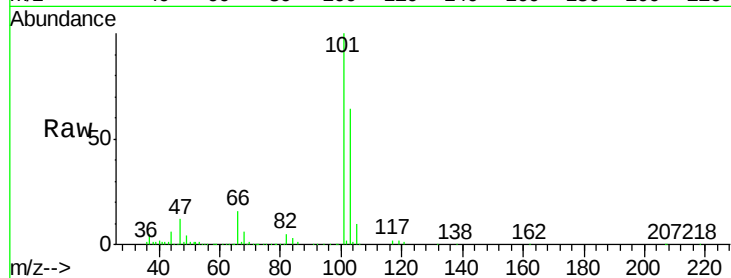
VSTDIC020

Tgt Ion:101 Resp: 76306

Ion Ratio Lower Upper

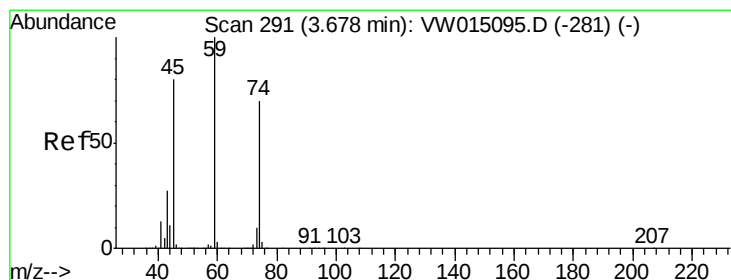
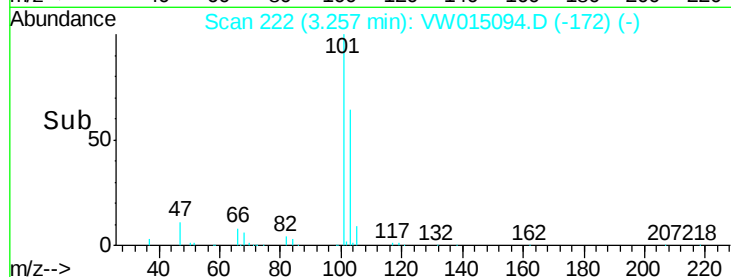
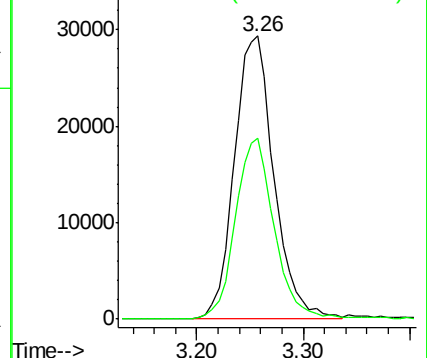
101 100

103 63.6 51.8 77.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 19.71 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW015094.D

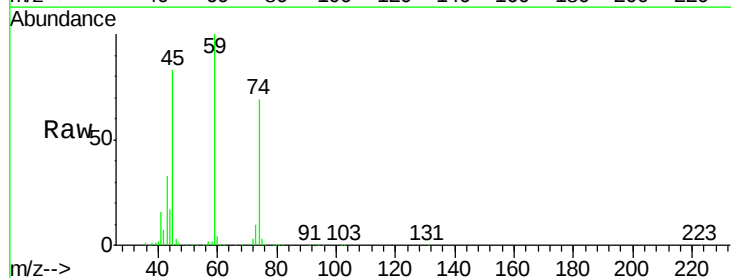
Acq: 09 Mar 2020 11:28

Tgt Ion: 74 Resp: 56699

Ion Ratio Lower Upper

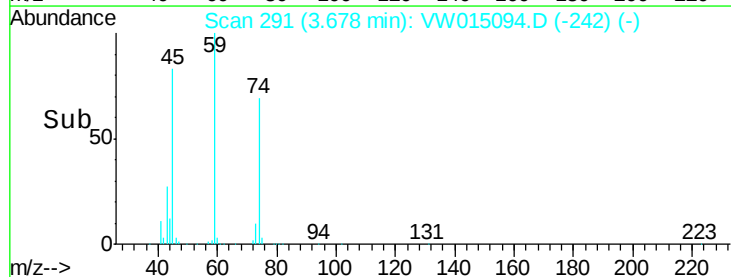
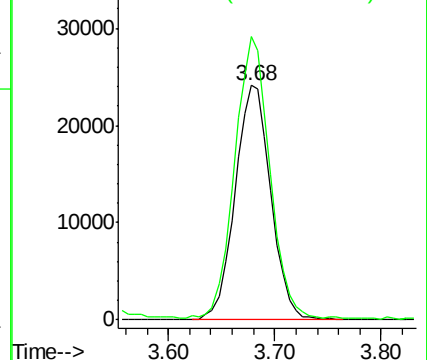
74 100

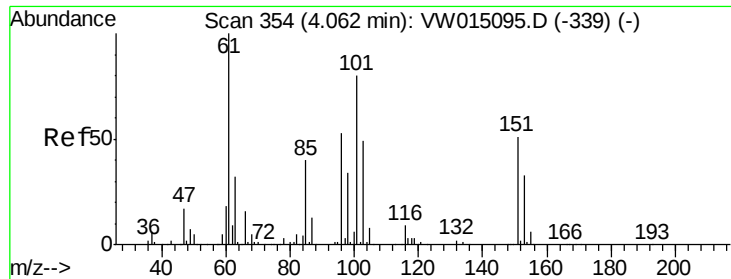
45 117.4 59.2 177.5



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.64 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

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VSTDIC020

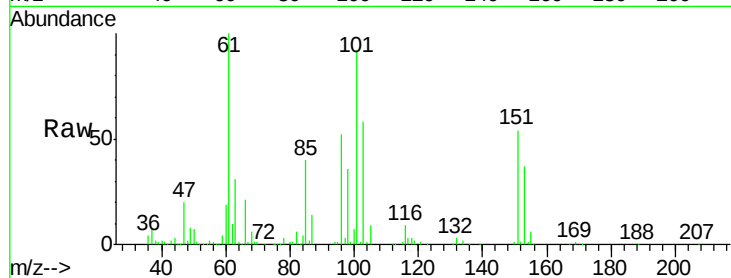
Tgt Ion:101 Resp: 118757

Ion Ratio Lower Upper

101 100

85 47.3 39.0 58.4

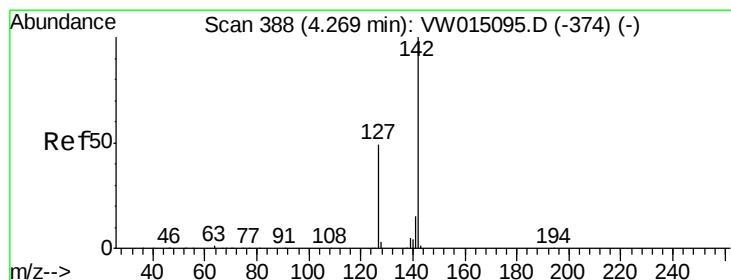
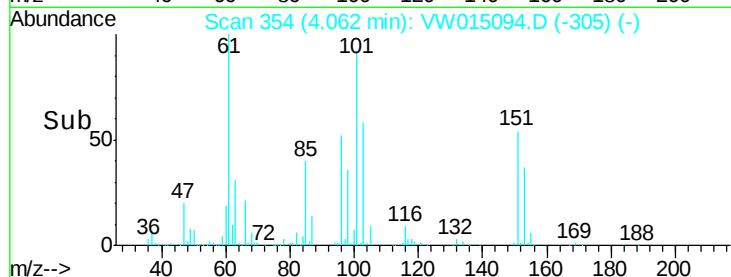
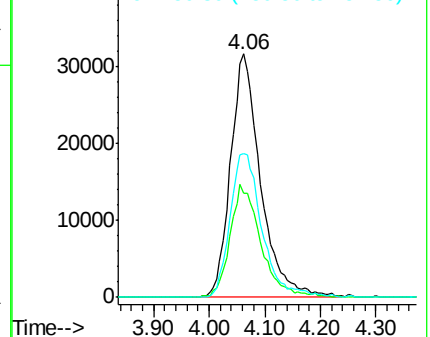
151 62.9 50.8 76.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.40 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

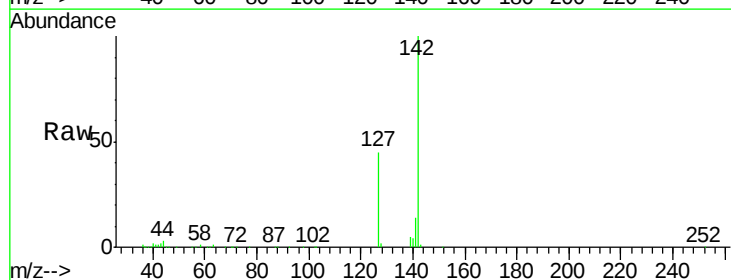
Tgt Ion:142 Resp: 130560

Ion Ratio Lower Upper

142 100

127 47.4 38.2 57.4

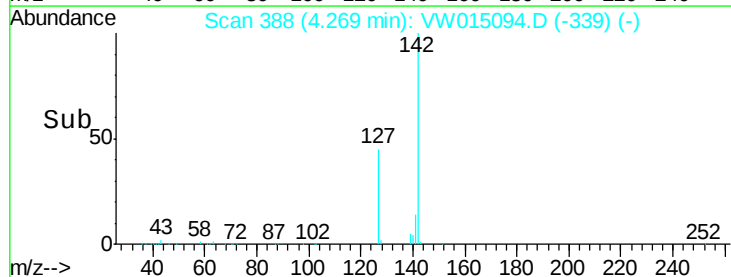
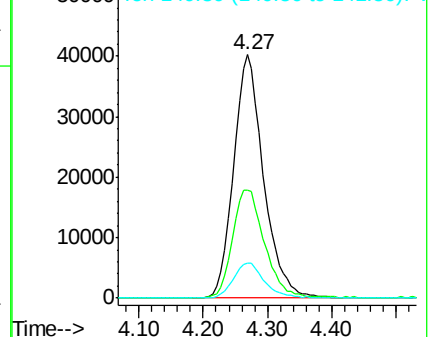
141 15.0 12.0 18.0

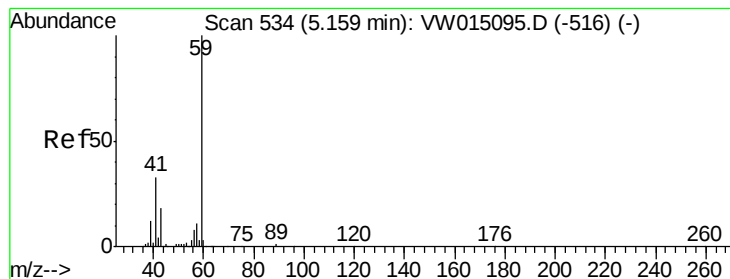


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 91.26 ug/l

RT: 5.17 min Scan# 535

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampled :

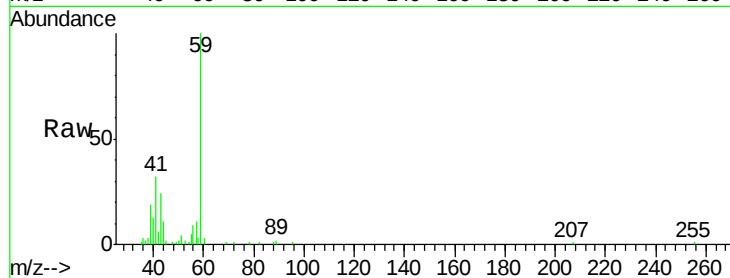
VSTDIC020

Tgt Ion: 59 Resp: 34147

Ion Ratio Lower Upper

59 100

57 11.0 9.1 13.7



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

10000

8000

6000

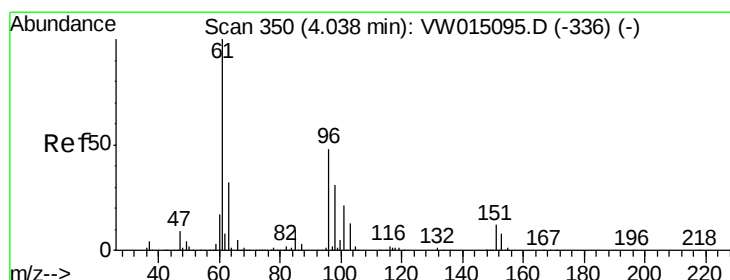
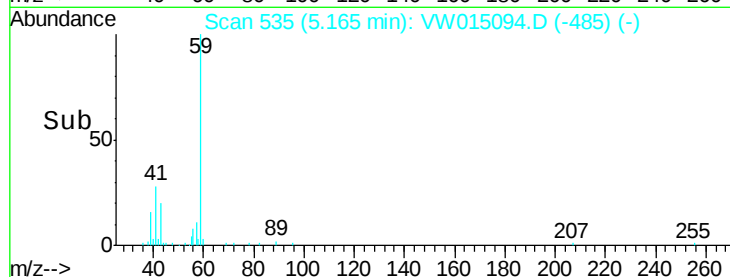
4000

2000

0

Time-->

5.00 5.10 5.20 5.30



#12

1,1-Dichloroethene

Concen: 20.53 ug/l

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

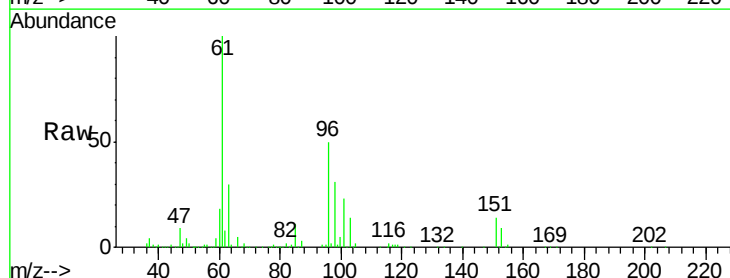
Tgt Ion: 96 Resp: 115498

Ion Ratio Lower Upper

96 100

61 198.3 165.5 248.3

98 60.6 51.1 76.7



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

100000

80000

60000

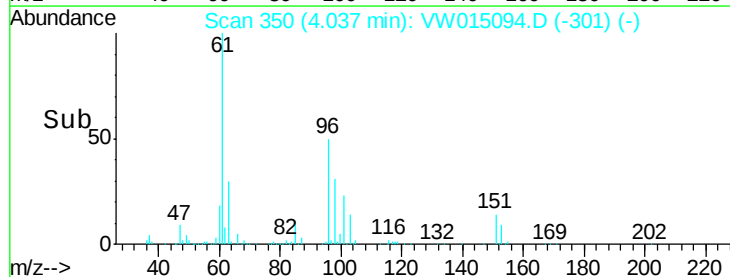
40000

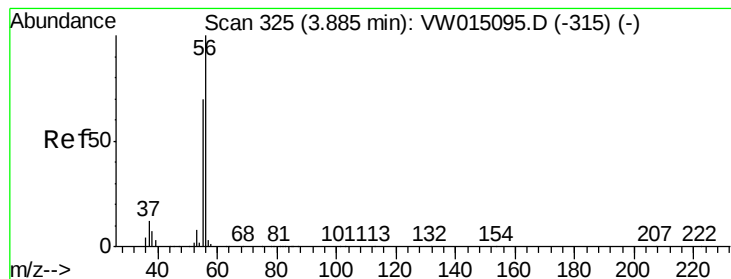
20000

0

Time-->

3.90 4.00 4.10





#13

Acrolein

Concen: 100.72 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

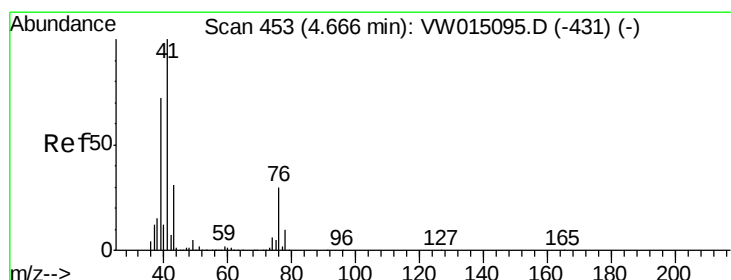
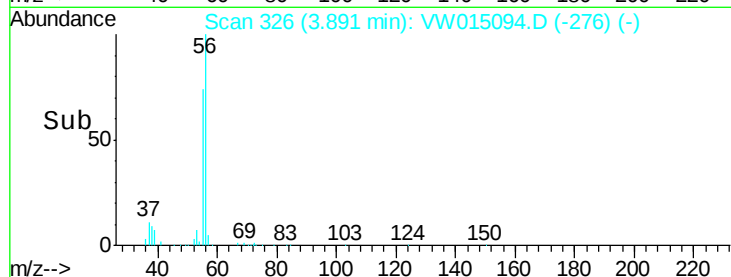
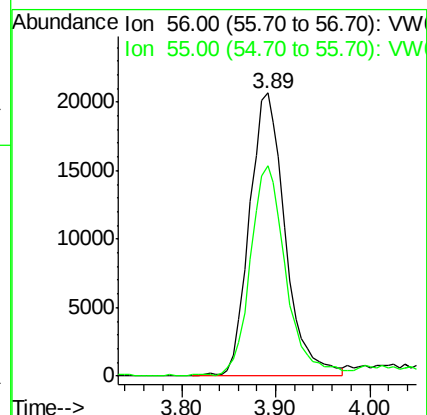
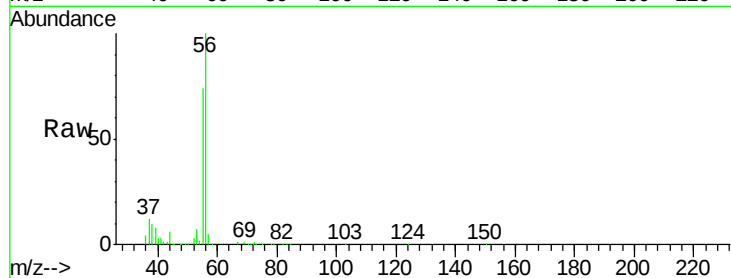
VSTDIC020

Tgt Ion: 56 Resp: 55117

Ion Ratio Lower Upper

56 100

55 72.9 55.4 83.2



#14

Allyl chloride

Concen: 20.00 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

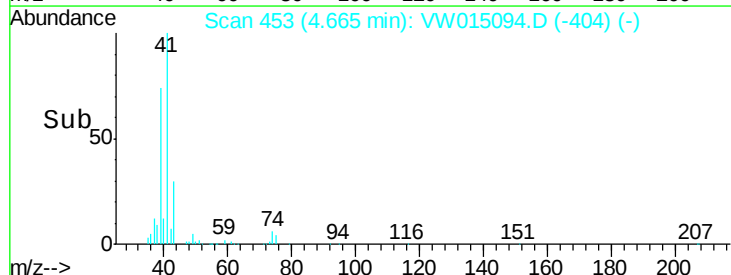
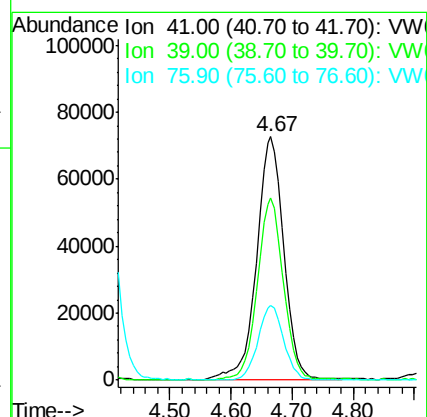
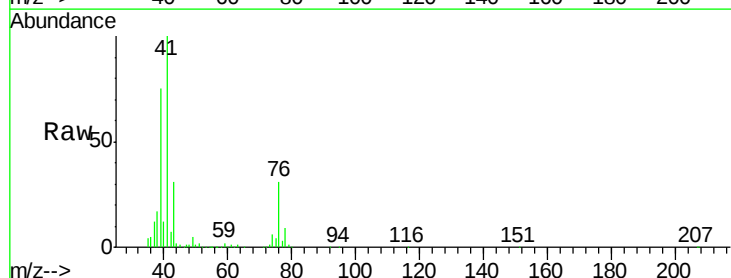
Tgt Ion: 41 Resp: 225496

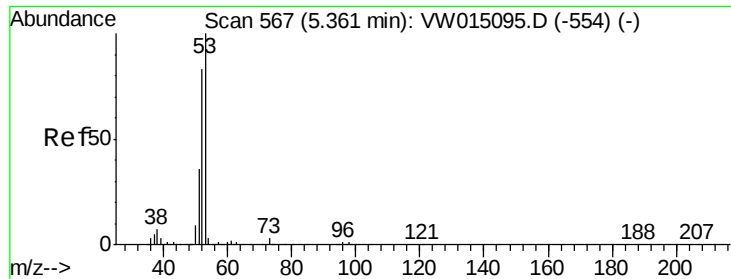
Ion Ratio Lower Upper

41 100

39 72.2 56.9 85.3

76 29.4 23.2 34.8





#15

Acrylonitrile

Concen: 97.85 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

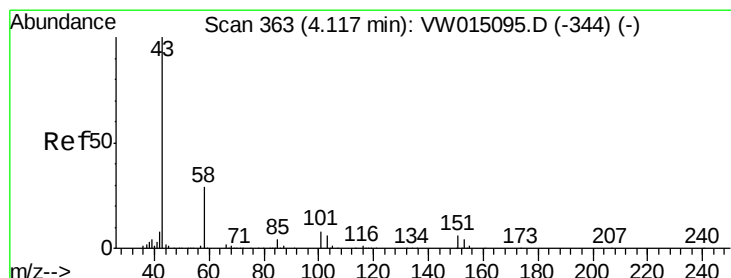
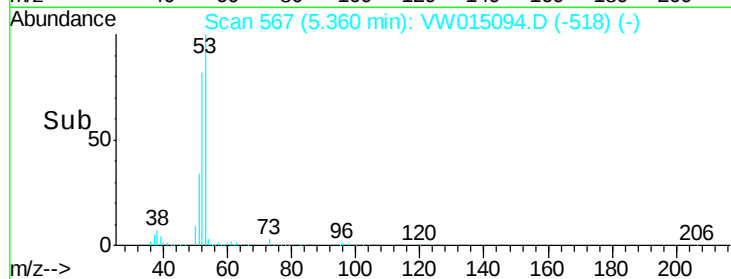
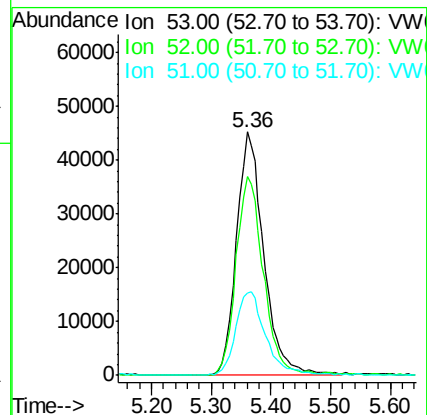
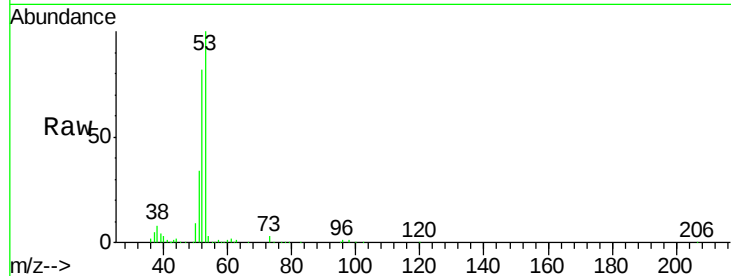
Tgt Ion: 53 Resp: 144258

Ion Ratio Lower Upper

53 100

52 81.7 67.2 100.8

51 37.5 29.8 44.6



#16

Acetone

Concen: 93.53 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW015094.D

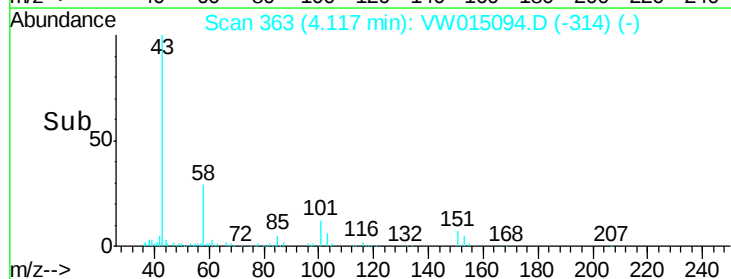
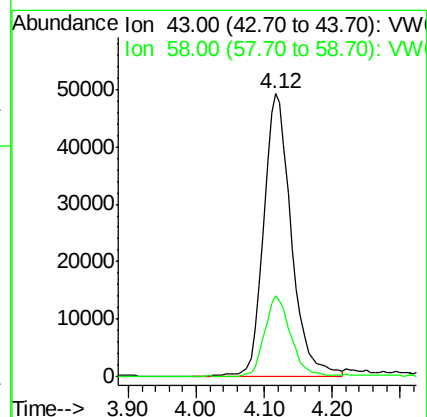
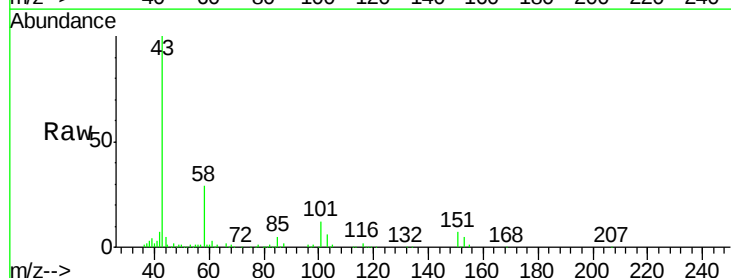
Acq: 09 Mar 2020 11:28

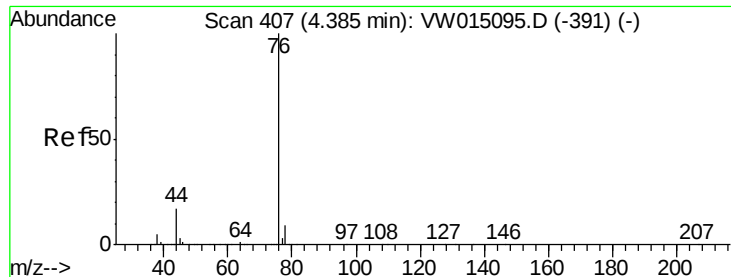
Tgt Ion: 43 Resp: 138868

Ion Ratio Lower Upper

43 100

58 28.5 22.9 34.3

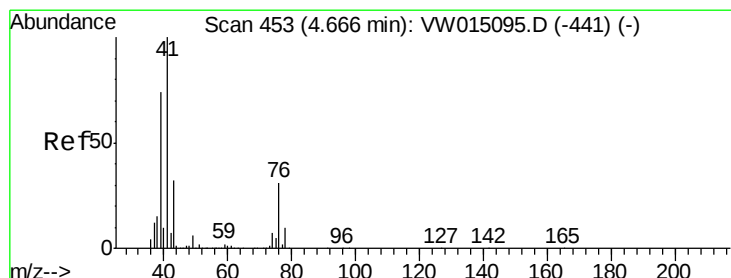
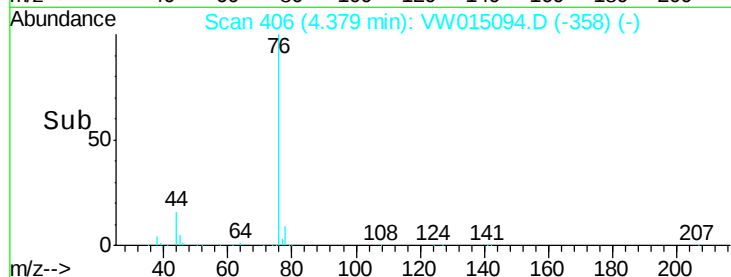
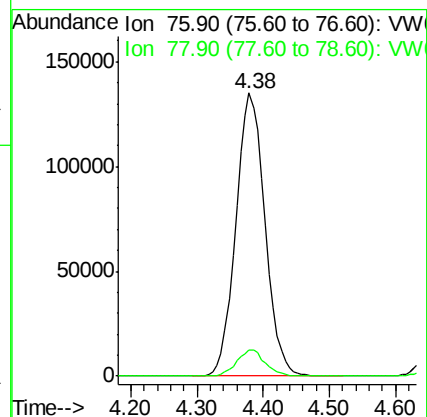
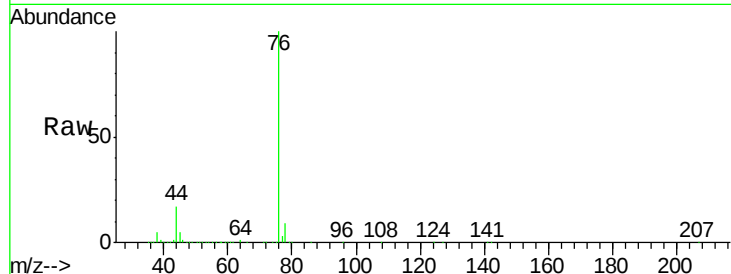




#17
Carbon Disulfide
Concen: 20.63 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

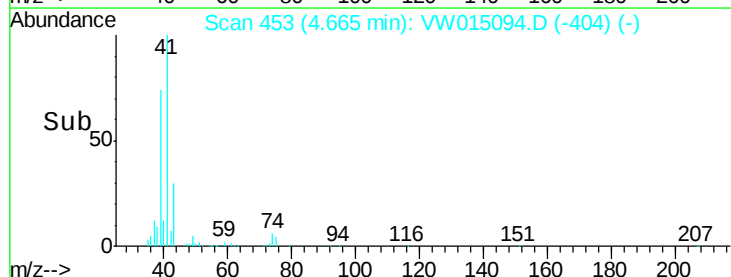
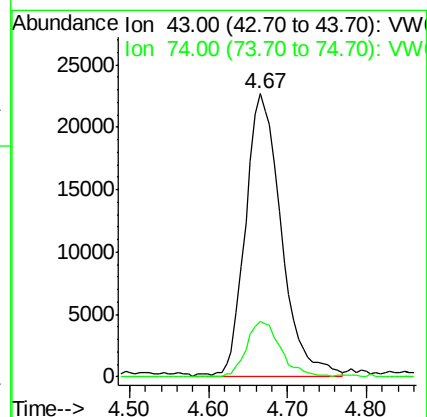
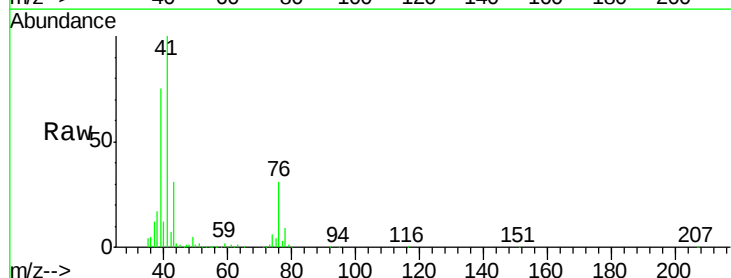
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

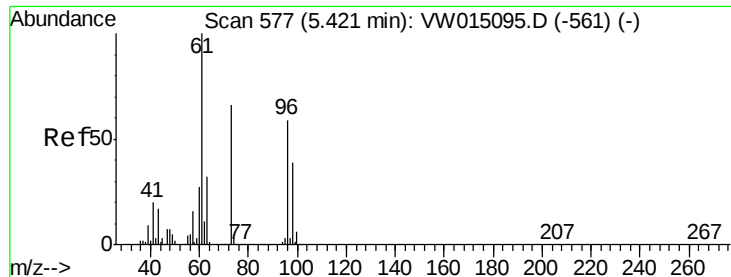
Tgt Ion: 76 Resp: 411538
Ion Ratio Lower Upper
76 100
78 9.1 6.9 10.3



#18
Methyl Acetate
Concen: 20.45 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 43 Resp: 71978
Ion Ratio Lower Upper
43 100
74 18.6 15.8 23.6

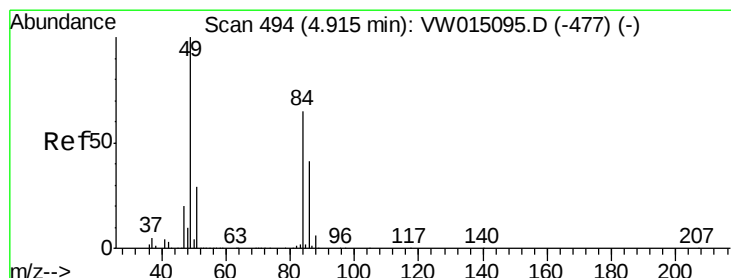
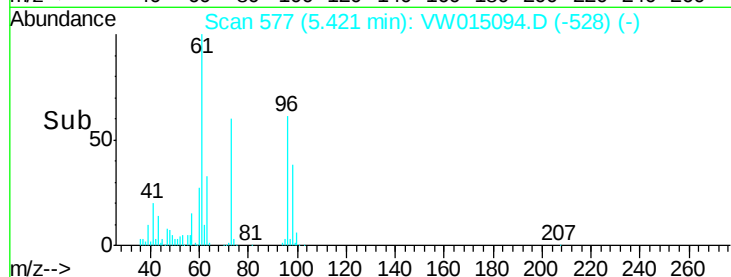
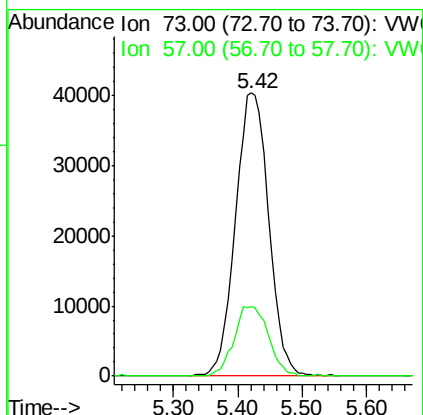
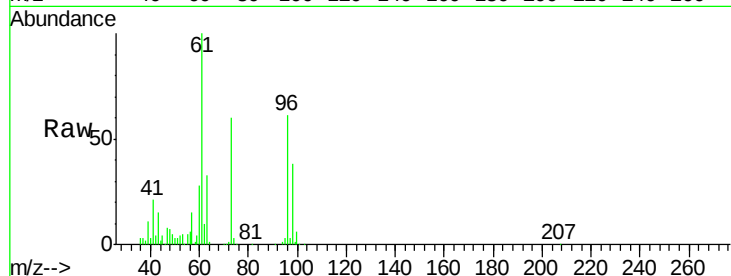




#19
Methyl tert-butyl Ether
Concen: 19.98 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

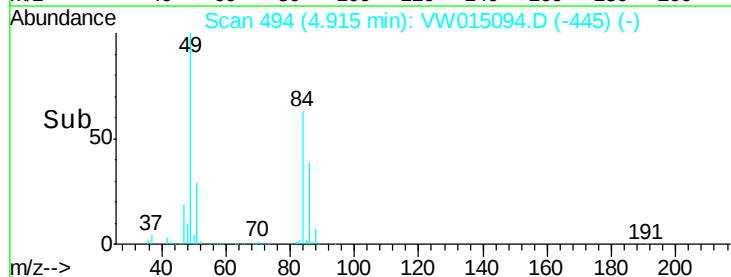
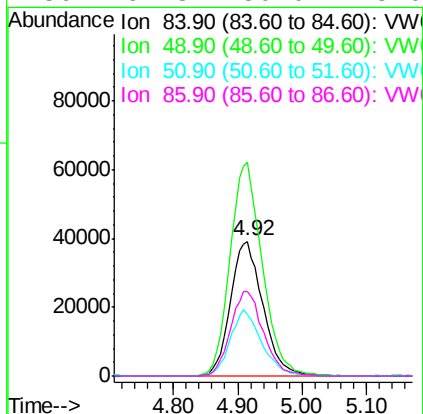
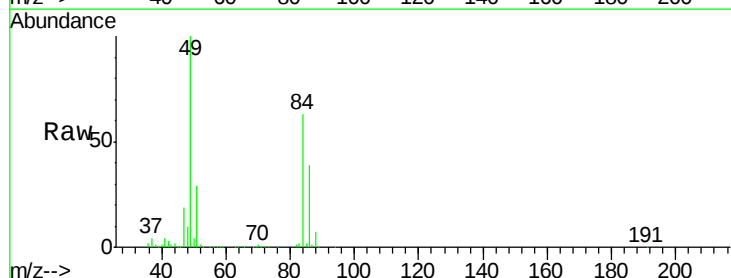
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

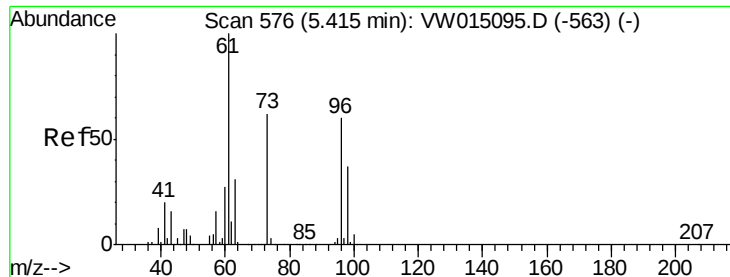
Tgt Ion: 73 Resp: 143900
Ion Ratio Lower Upper
73 100
57 24.6 19.3 28.9



#20
Methylene Chloride
Concen: 19.91 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 84 Resp: 136833
Ion Ratio Lower Upper
84 100
49 158.1 122.8 184.2
51 45.9 35.9 53.9
86 62.3 50.0 75.0





#21

trans-1,2-Dichloroethene

Concen: 20.14 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

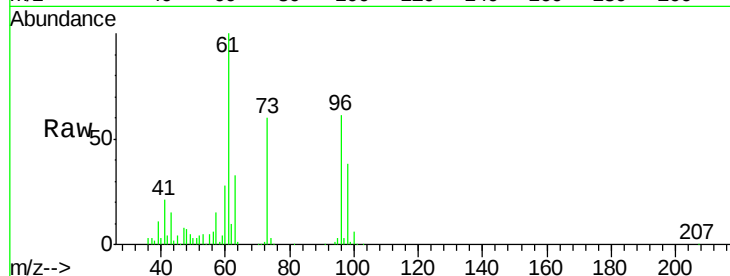
Tgt Ion: 96 Resp: 120308

Ion Ratio Lower Upper

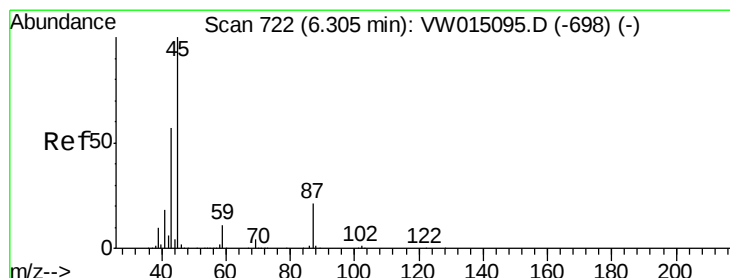
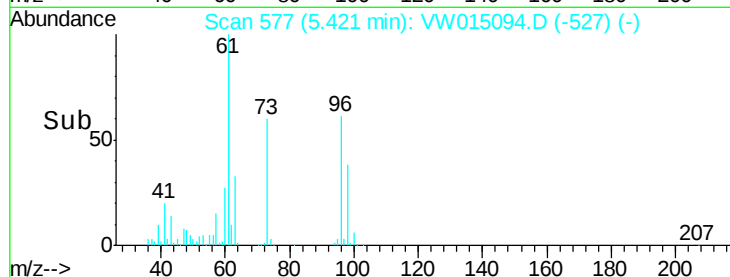
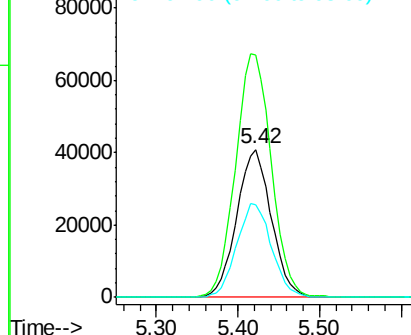
96 100

61 163.5 132.5 198.7

98 62.9 48.9 73.3



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: 20.99 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion: 45 Resp: 454036

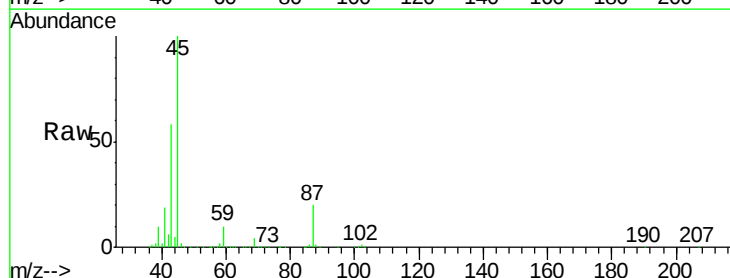
Ion Ratio Lower Upper

45 100

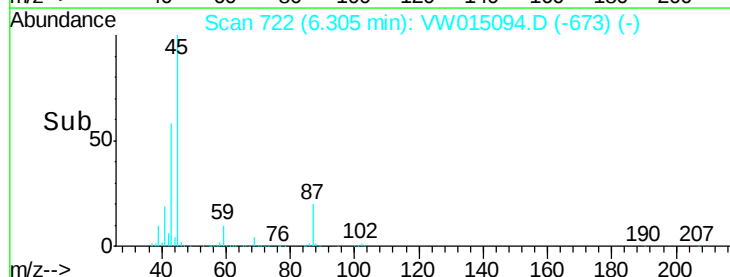
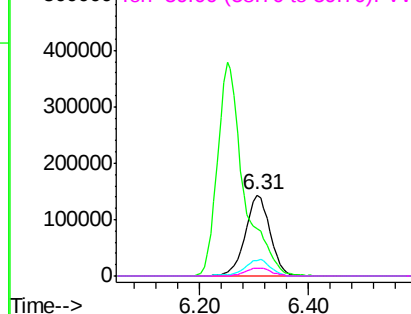
43 57.8 45.4 68.0

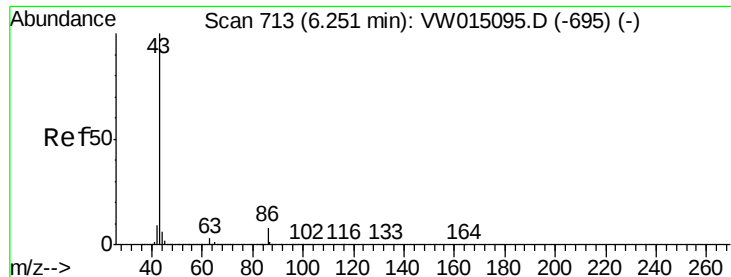
87 19.8 16.4 24.6

59 9.7 8.4 12.6



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: 98.92 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

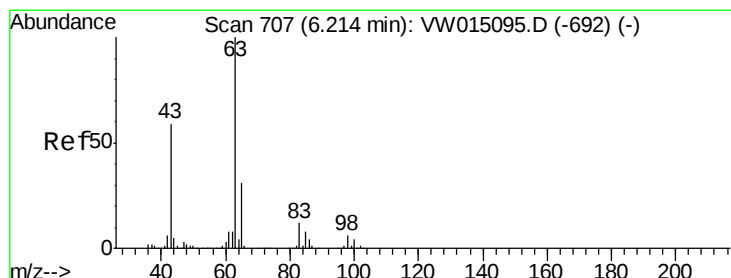
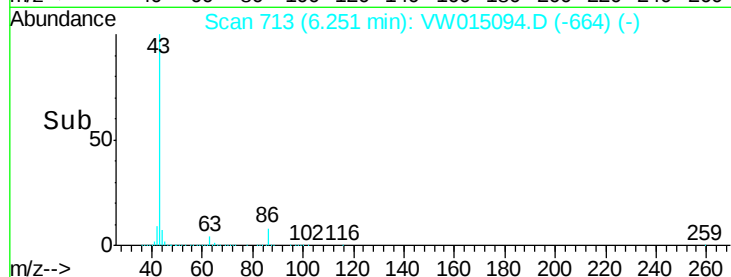
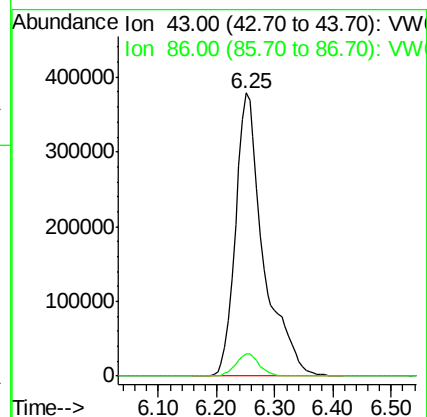
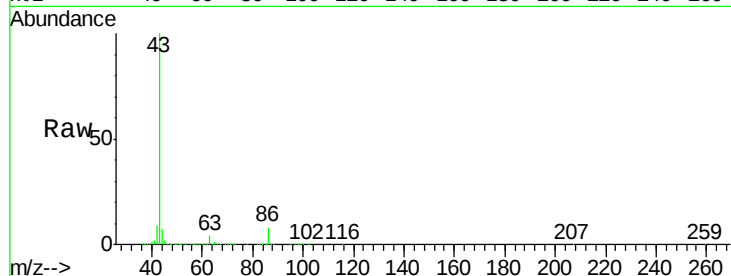
VSTDIC020

Tgt Ion: 43 Resp: 1263223

Ion Ratio Lower Upper

43 100

86 7.7 6.3 9.5



#24

1,1-Dichloroethane

Concen: 20.33 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

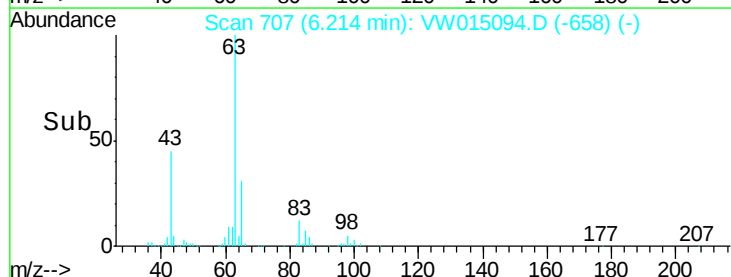
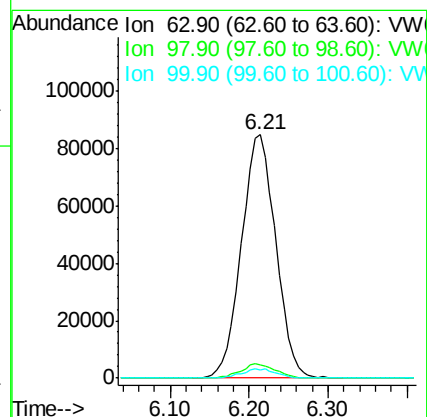
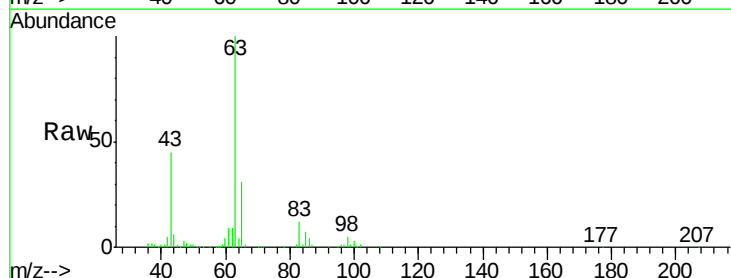
Tgt Ion: 63 Resp: 256491

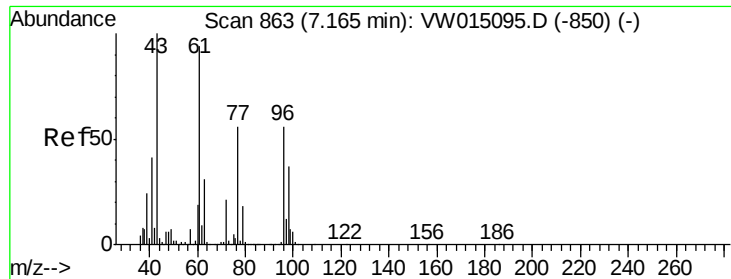
Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.8

100 3.5 2.1 6.3





#25

2-Butanone

Concen: 94.13 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

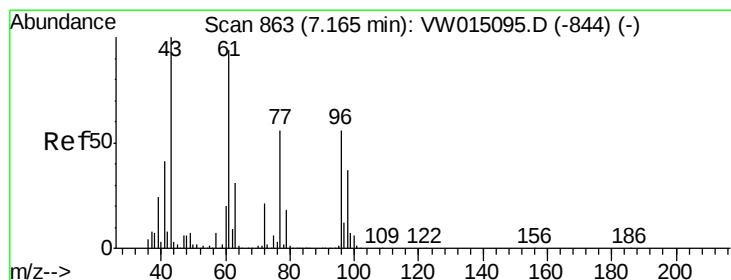
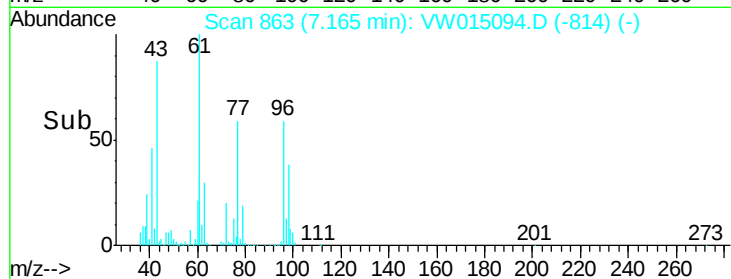
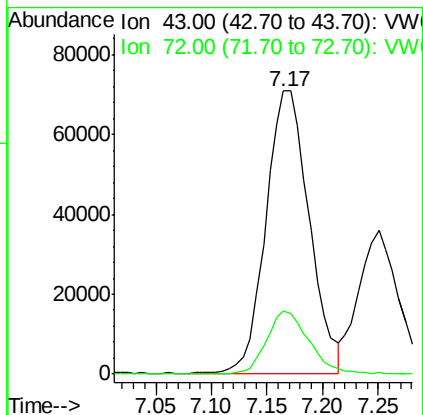
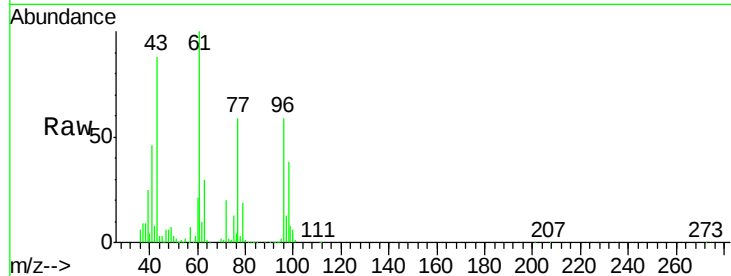
VSTDIC020

Tgt Ion: 43 Resp: 191613

Ion Ratio Lower Upper

43 100

72 22.6 17.0 25.6



#26

2,2-Dichloropropane

Concen: 20.09 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW015094.D

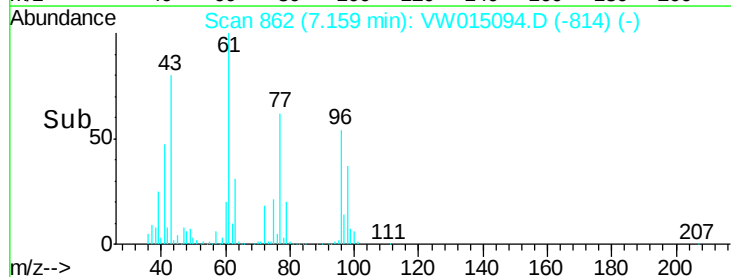
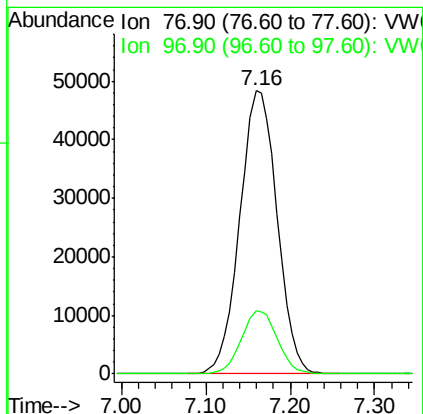
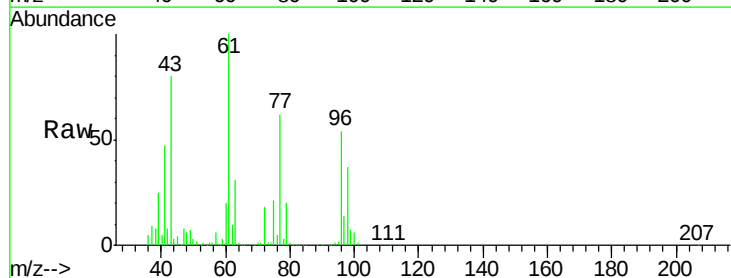
Acq: 09 Mar 2020 11:28

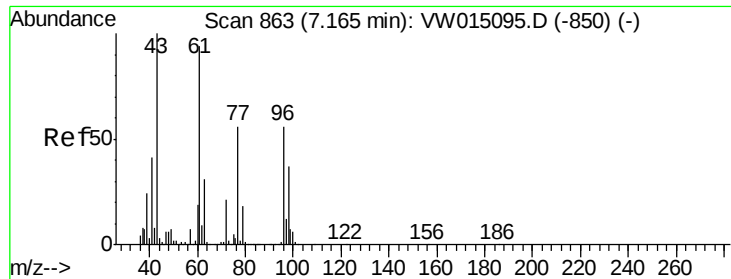
Tgt Ion: 77 Resp: 144923

Ion Ratio Lower Upper

77 100

97 21.5 10.6 31.8



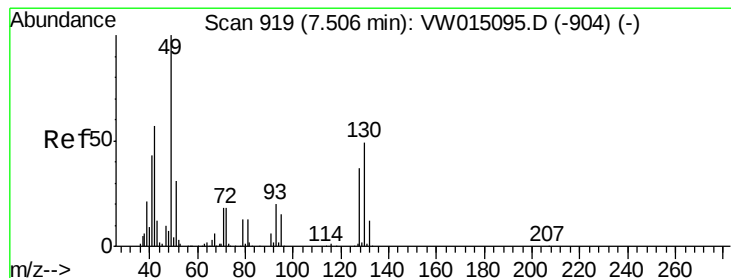
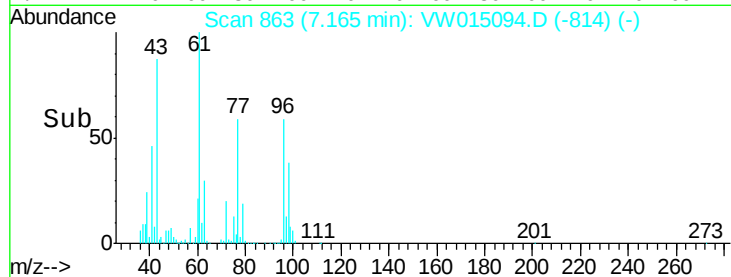
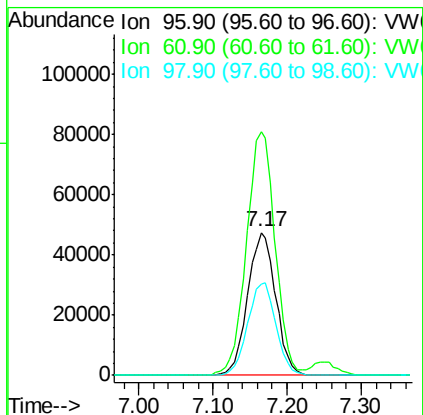
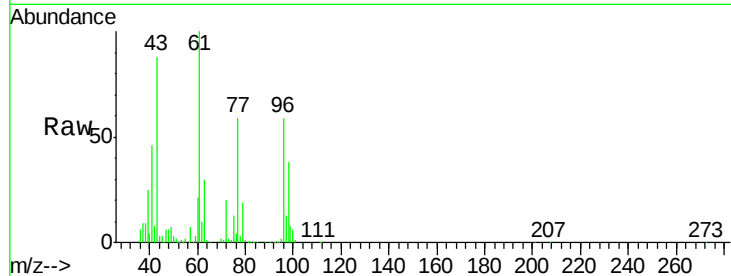


#27

cis-1,2-Dichloroethene
Concen: 20.19 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

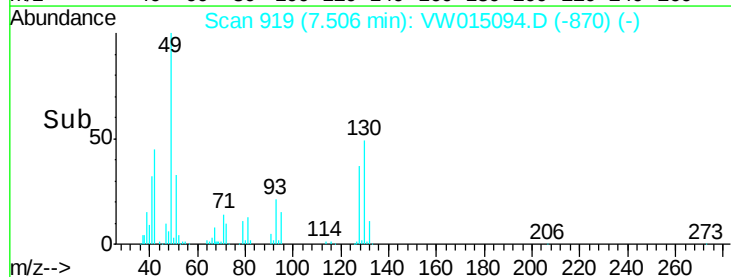
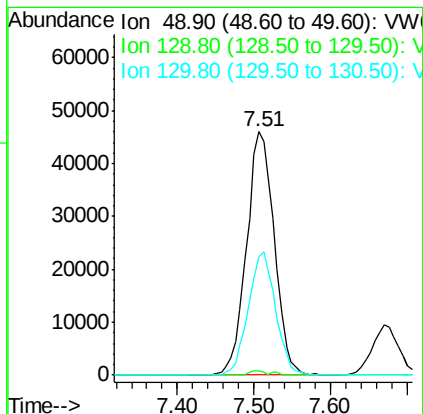
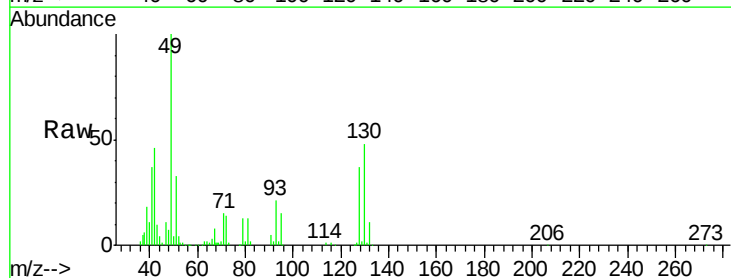
Tgt Ion: 96 Resp: 125523
Ion Ratio Lower Upper
96 100
61 174.3 0.0 343.4
98 65.0 0.0 127.6

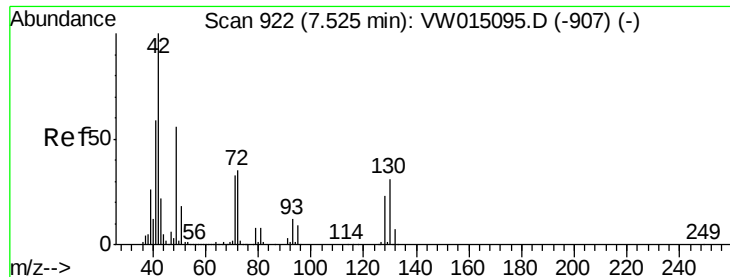


#28

Bromochloromethane
Concen: 19.27 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 49 Resp: 116499
Ion Ratio Lower Upper
49 100
129 0.9 0.0 3.0
130 49.5 39.8 59.6

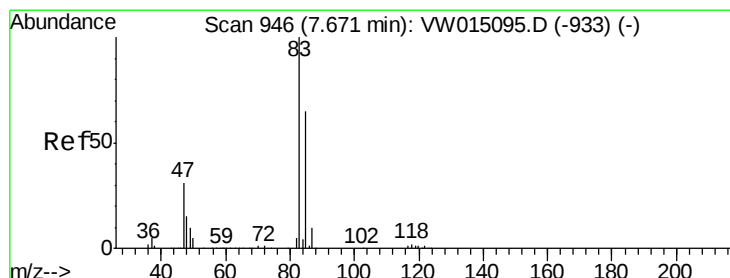
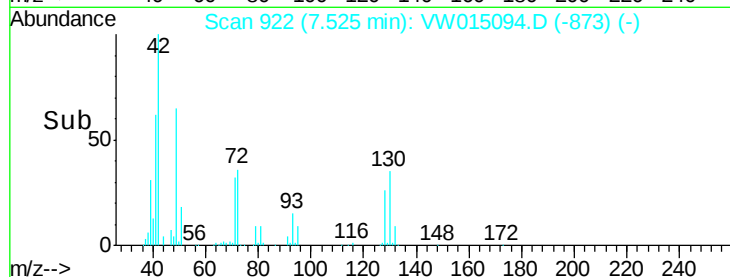
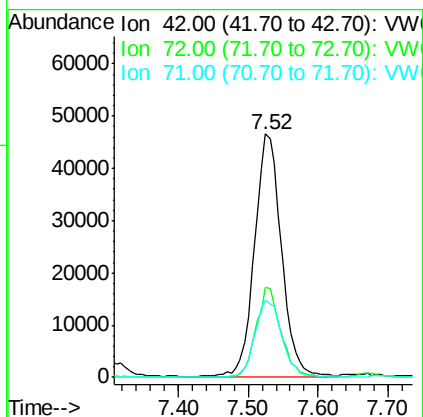
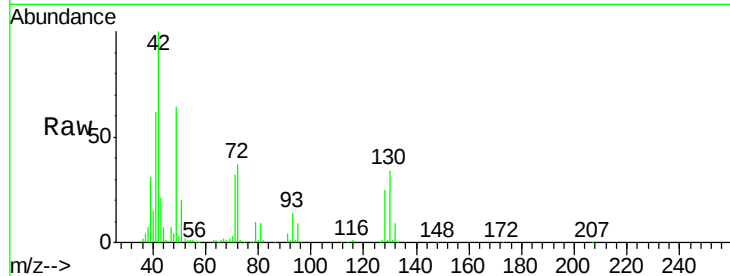




#29
Tetrahydrofuran
Concen: 97.33 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

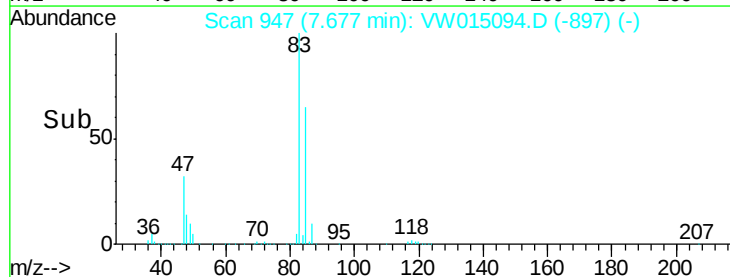
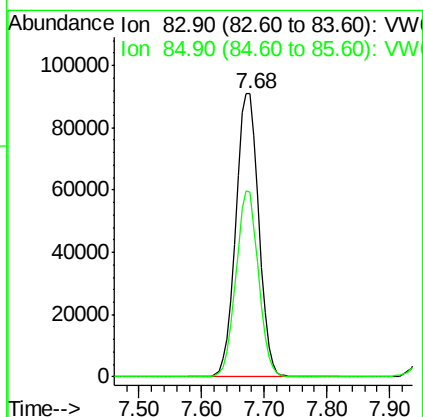
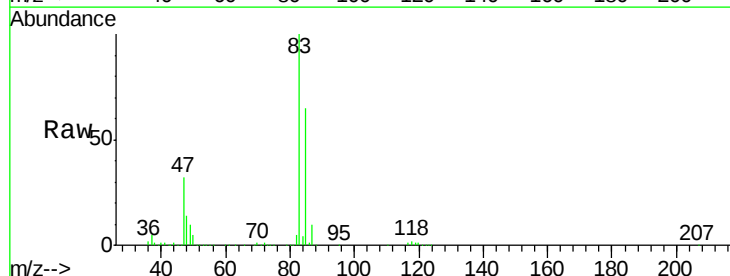
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

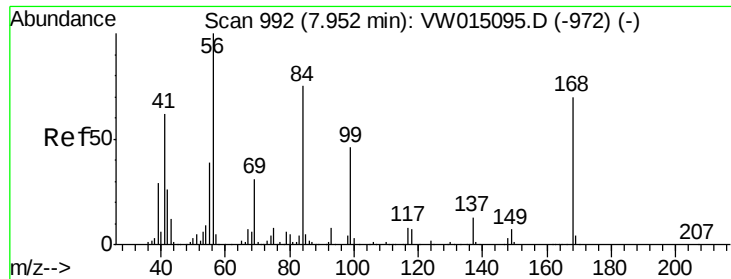
Tgt Ion: 42 Resp: 123921
Ion Ratio Lower Upper
42 100
72 34.1 27.8 41.6
71 32.1 26.4 39.6



#30
Chloroform
Concen: 20.54 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 83 Resp: 229953
Ion Ratio Lower Upper
83 100
85 65.5 51.9 77.9

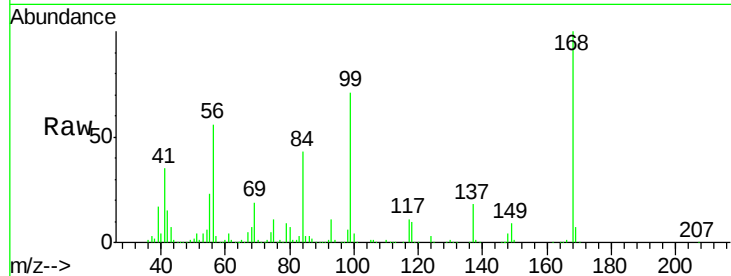




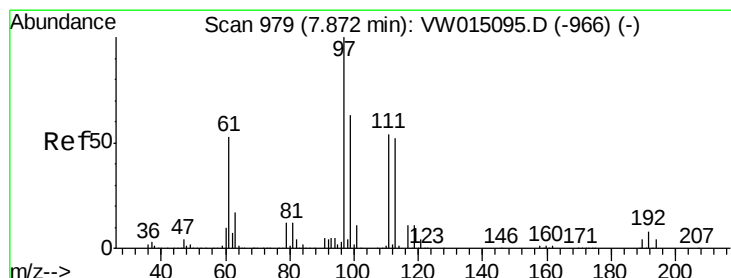
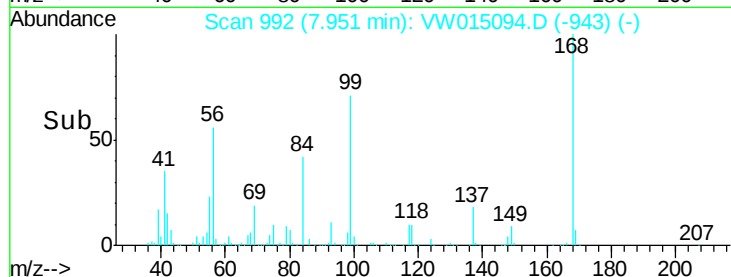
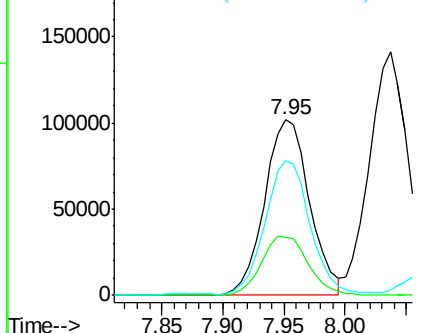
#31
Cyclohexane
Concen: 20.15 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

Tgt Ion: 56 Resp: 261417
Ion Ratio Lower Upper
56 100
69 33.1 24.6 37.0
84 75.6 59.9 89.9

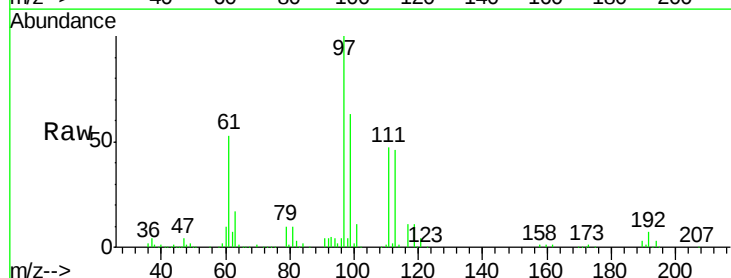


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

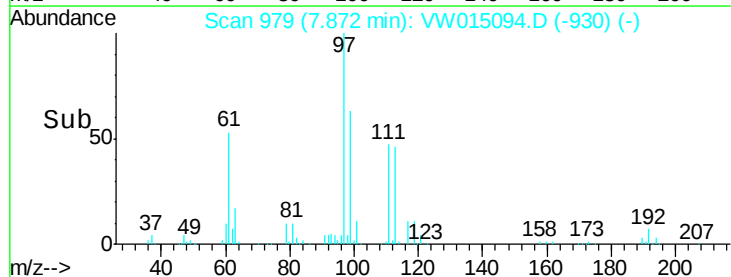
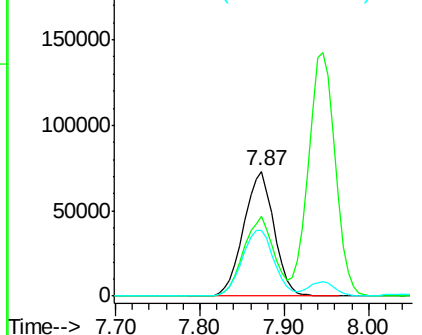


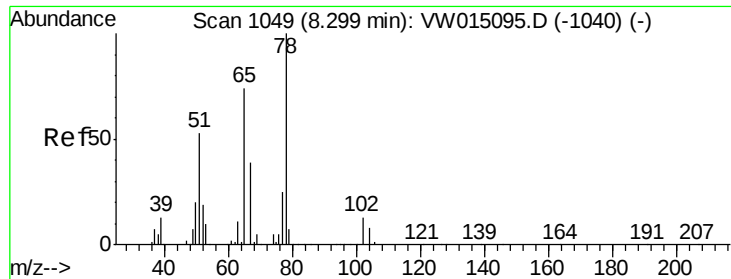
#32
1,1,1-Trichloroethane
Concen: 20.43 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 97 Resp: 178568
Ion Ratio Lower Upper
97 100
99 63.7 51.3 76.9
61 55.6 44.0 66.0



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

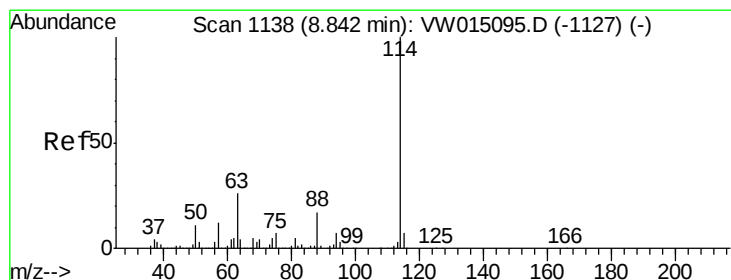
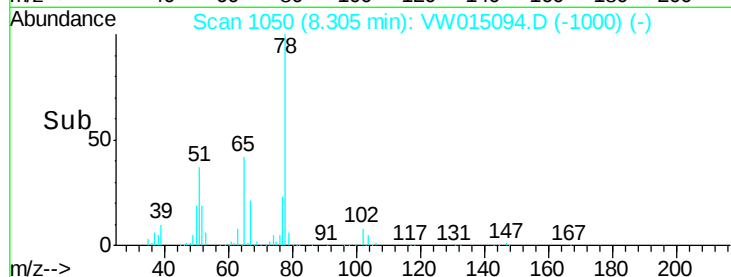
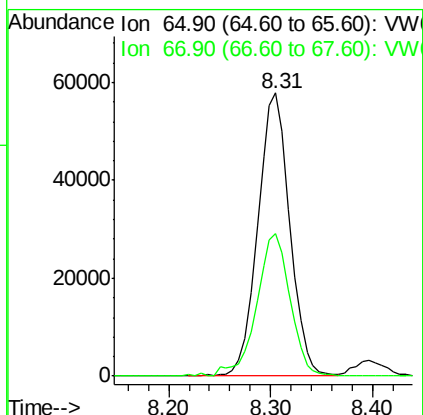
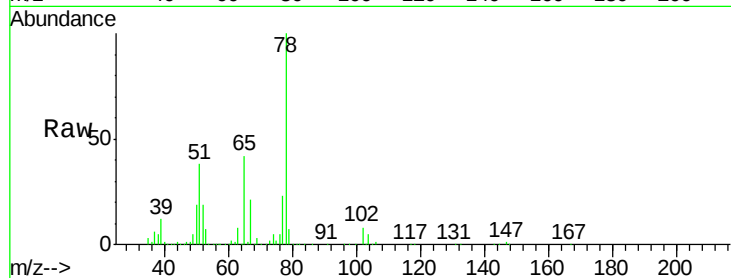




#33
 1,2-Dichloroethane-d4
 Concen: 19.34 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

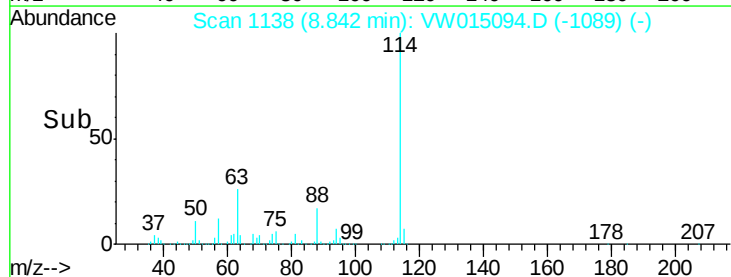
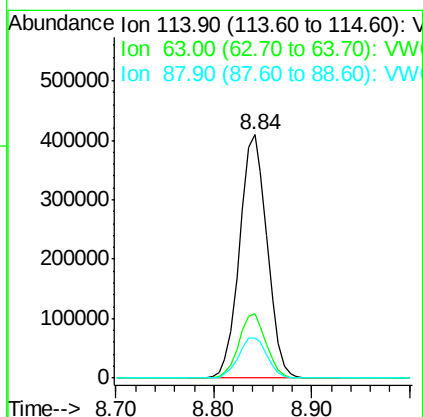
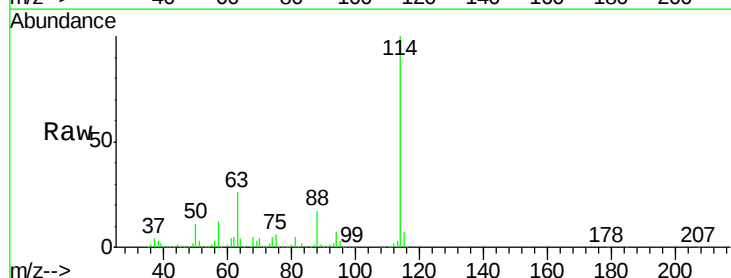
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

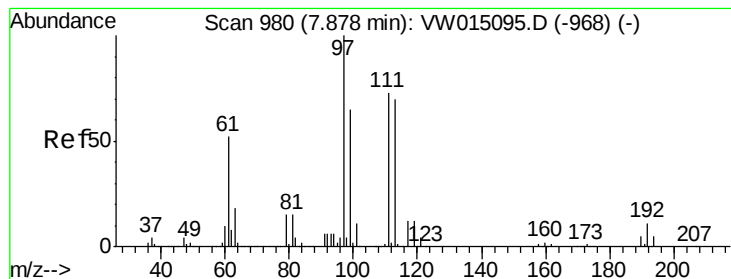
Tgt Ion: 65 Resp: 125930
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion: 114 Resp: 799194
 Ion Ratio Lower Upper
 114 100
 63 26.4 0.0 52.0
 88 16.6 0.0 34.2





#35

Dibromofluoromethane

Concen: 20.03 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

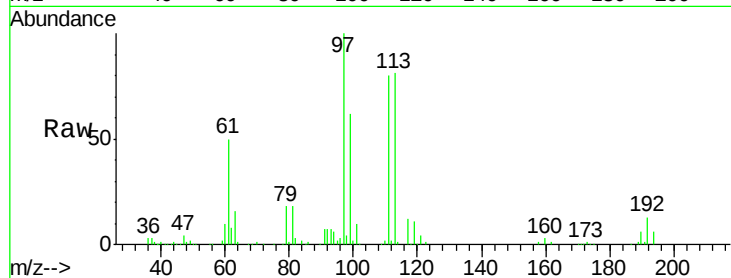
Tgt Ion:113 Resp: 95821

Ion Ratio Lower Upper

113 100

111 103.2 83.6 125.4

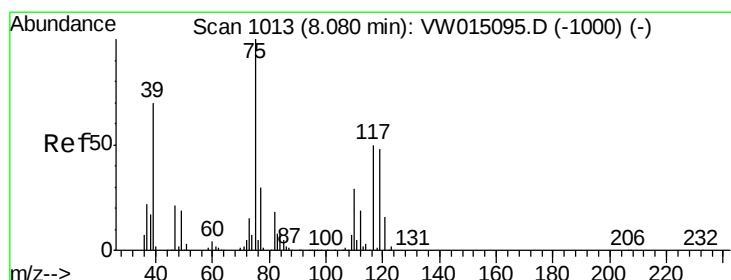
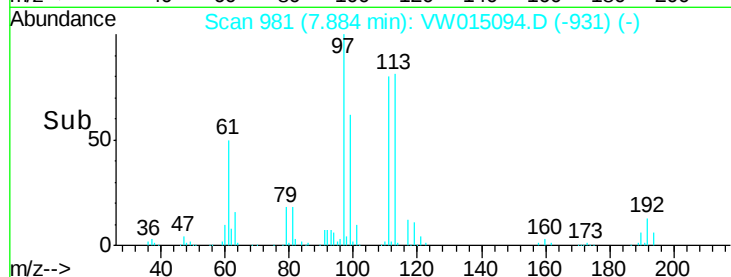
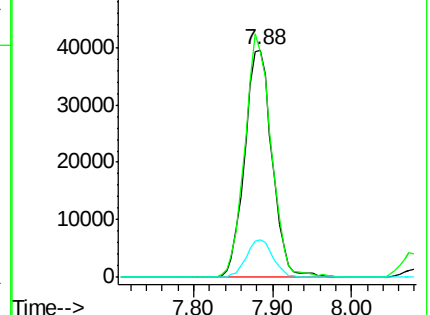
192 15.9 12.4 18.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 21.20 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

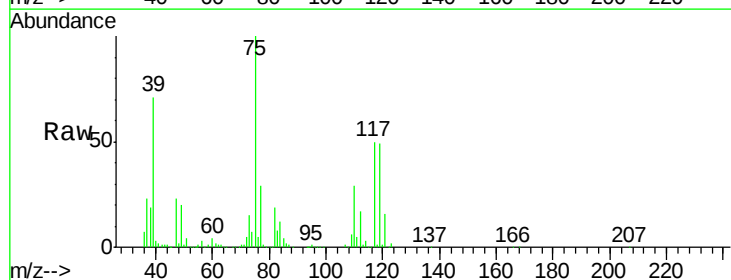
Tgt Ion: 75 Resp: 196505

Ion Ratio Lower Upper

75 100

110 29.9 14.7 44.1

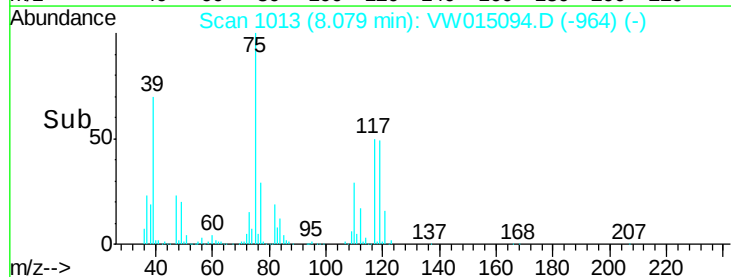
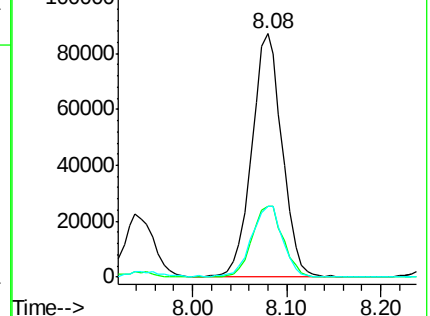
77 30.0 24.2 36.4

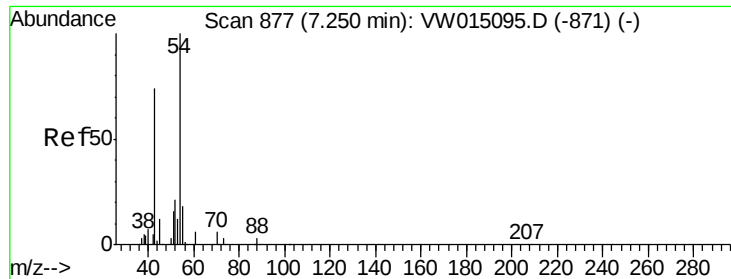


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

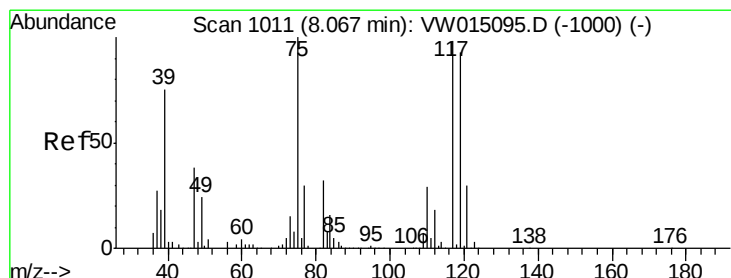
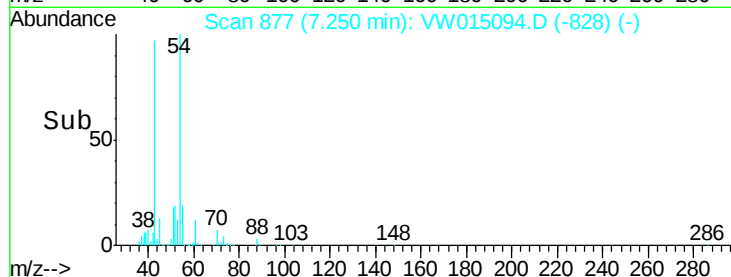
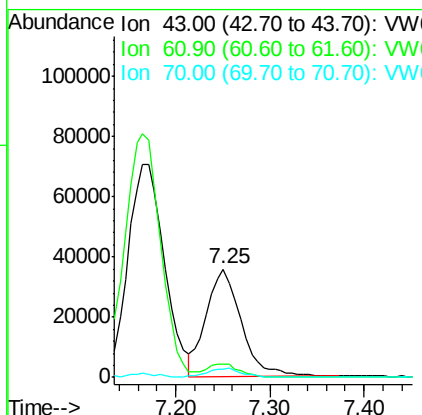
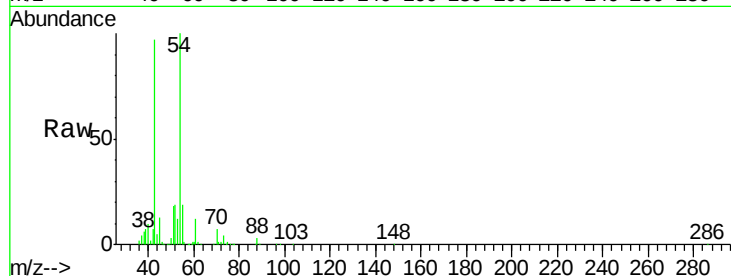




#37
 Ethyl Acetate
 Concen: 19.90 ug/l
 RT: 7.25 min Scan# 877
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

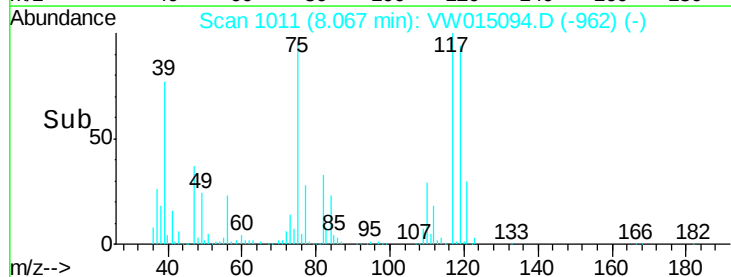
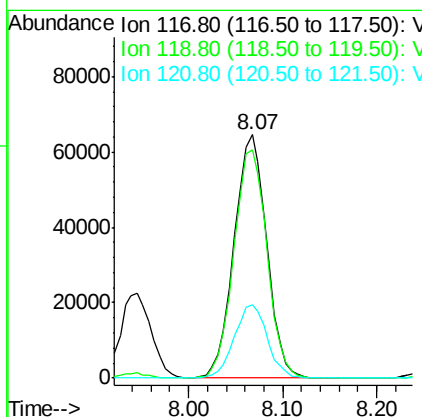
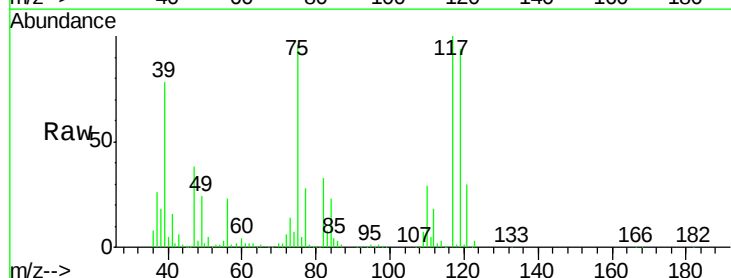
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

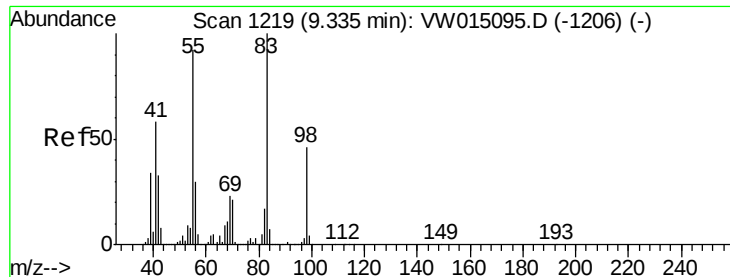
Tgt Ion: 43 Resp: 91911
 Ion Ratio Lower Upper
 43 100
 61 11.7 9.6 14.4
 70 8.4 6.5 9.7



#38
 Carbon Tetrachloride
 Concen: 20.67 ug/l
 RT: 8.07 min Scan# 1011
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion: 117 Resp: 155983
 Ion Ratio Lower Upper
 117 100
 119 93.5 75.8 113.8
 121 29.9 24.5 36.7

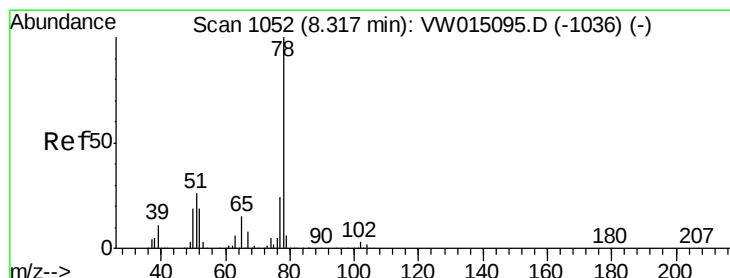
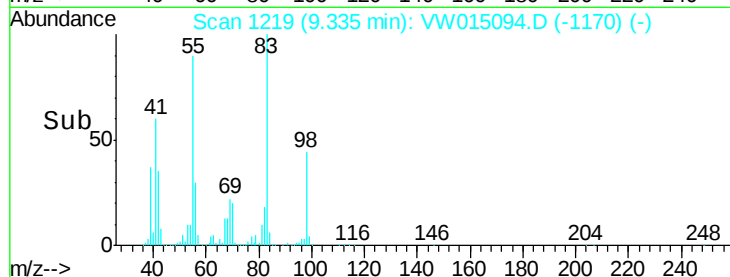
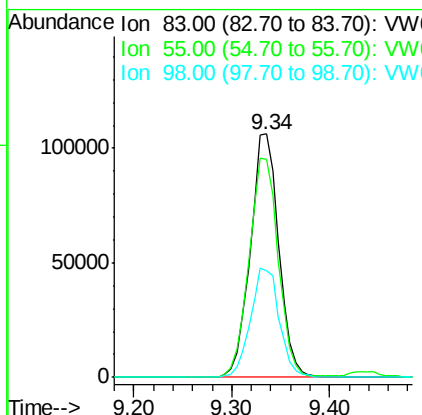
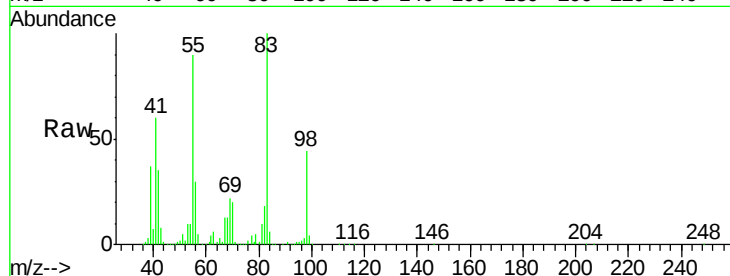




#39
Methylcyclohexane
Concen: 20.35 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

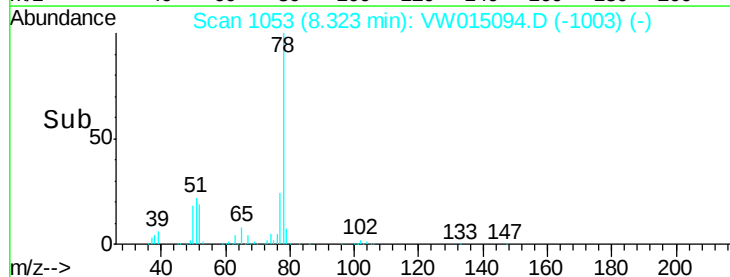
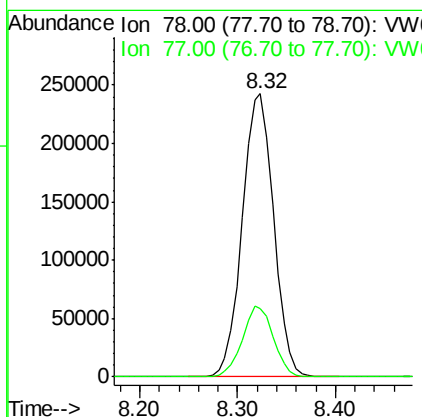
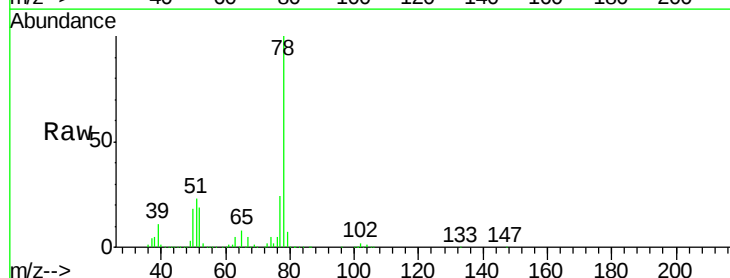
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

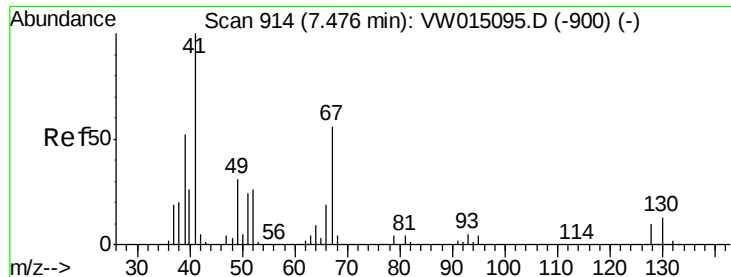
Tgt Ion: 83 Resp: 215659
Ion Ratio Lower Upper
83 100
55 89.6 73.5 110.3
98 43.6 37.2 55.8



#40
Benzene
Concen: 21.01 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 78 Resp: 541160
Ion Ratio Lower Upper
78 100
77 24.2 19.5 29.3





#41

Methacrylonitrile

Concen: 20.65 ug/l

RT: 7.48 min Scan# 914

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 50438

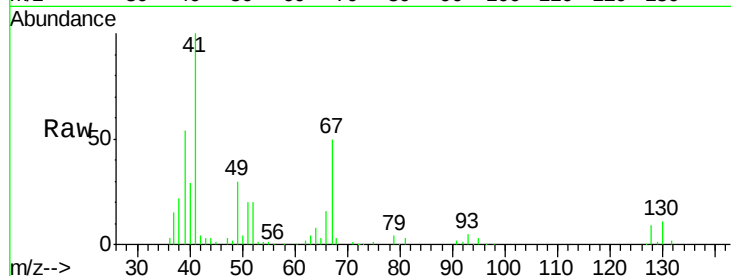
Ion Ratio Lower Upper

41 100

39 55.1 49.0 73.4

67 58.9 50.4 75.6

52 27.2 24.2 36.4

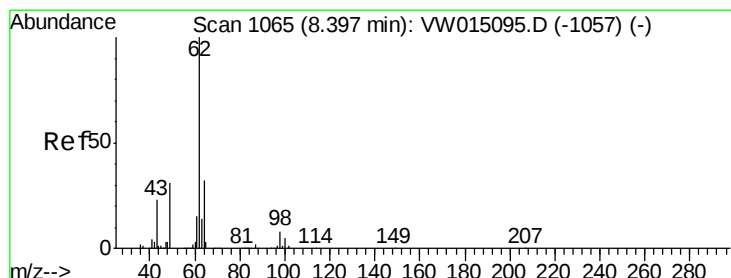
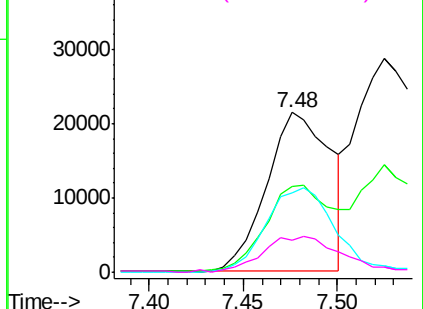
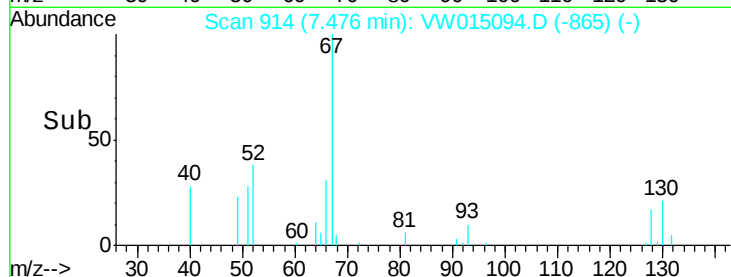


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 20.73 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW015094.D

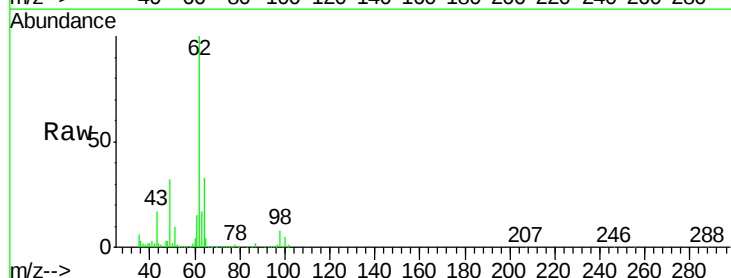
Acq: 09 Mar 2020 11:28

Tgt Ion: 62 Resp: 162701

Ion Ratio Lower Upper

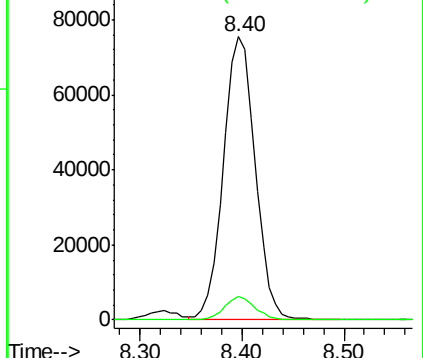
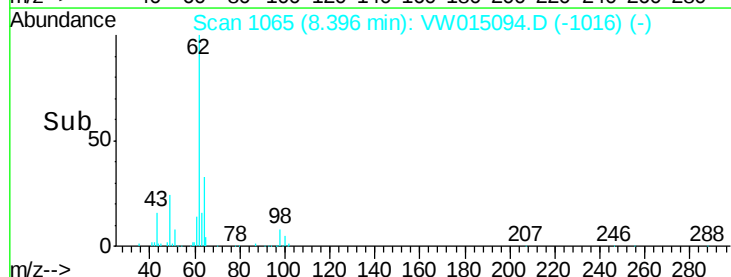
62 100

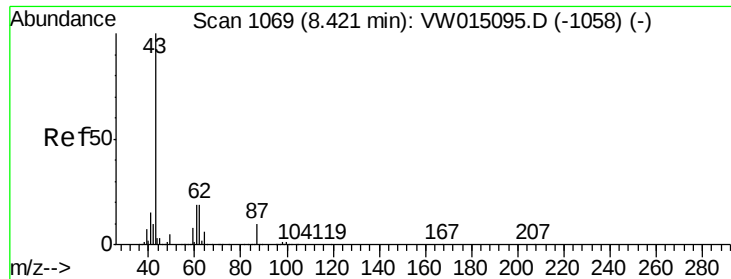
98 8.0 0.0 16.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 19.61 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

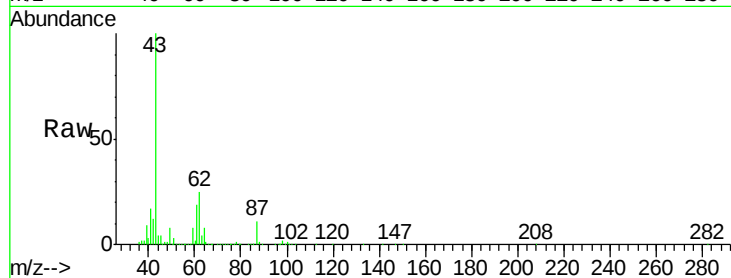
Tgt Ion: 43 Resp: 162416

Ion Ratio Lower Upper

43 100

61 28.3 21.8 32.8

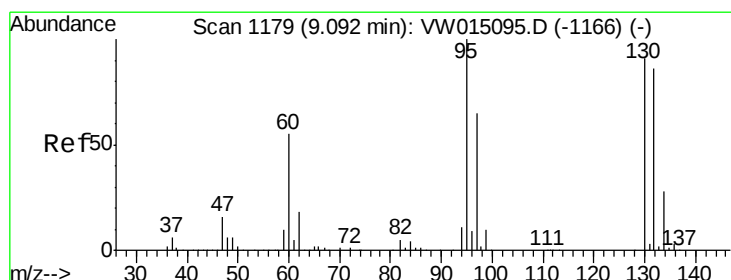
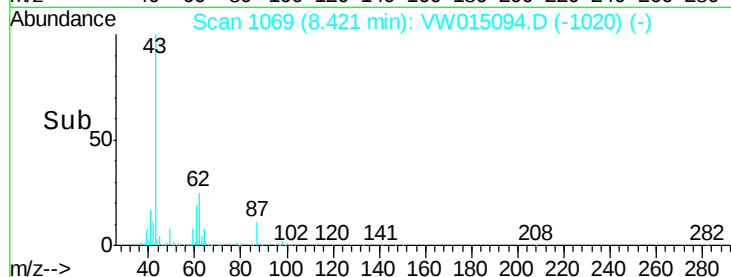
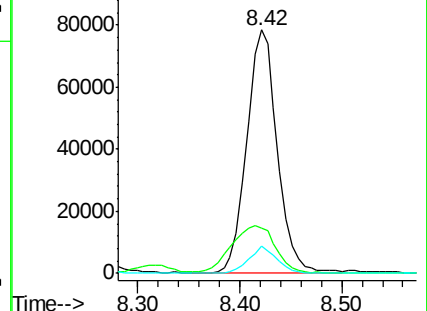
87 10.2 8.0 12.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 20.54 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW015094.D

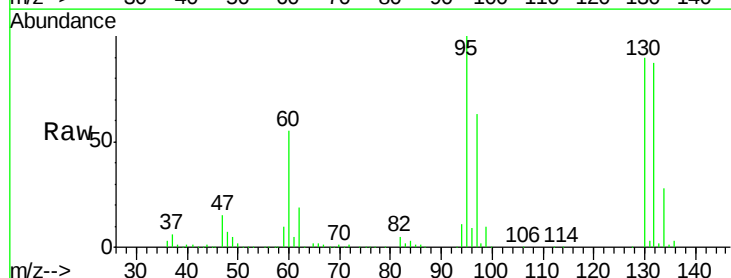
Acq: 09 Mar 2020 11:28

Tgt Ion: 130 Resp: 112593

Ion Ratio Lower Upper

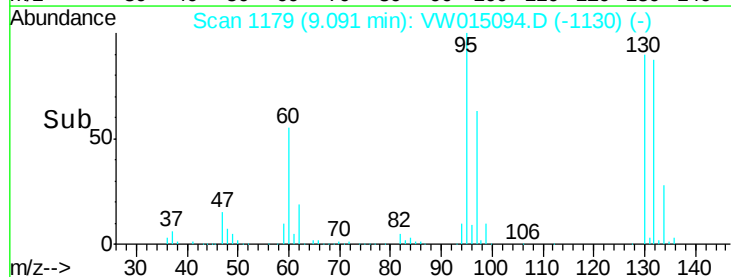
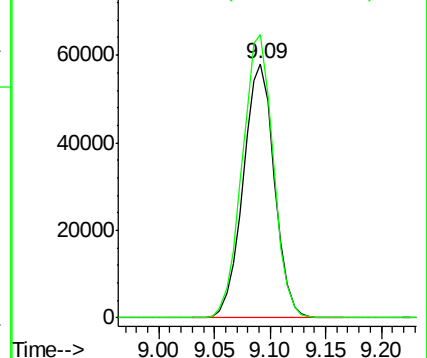
130 100

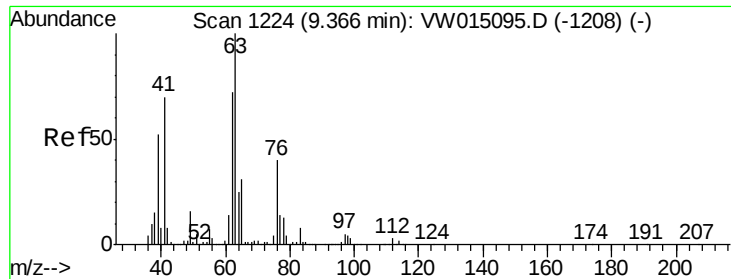
95 111.4 0.0 219.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

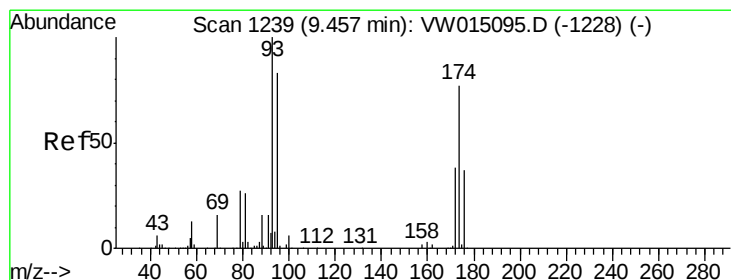
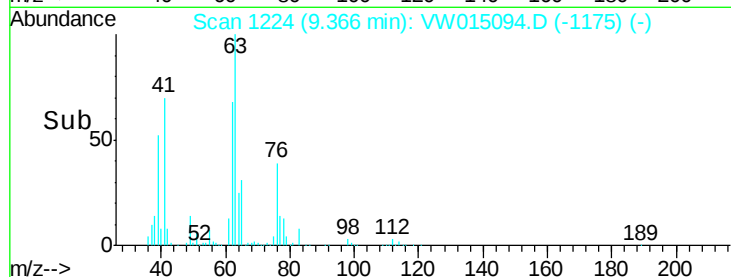
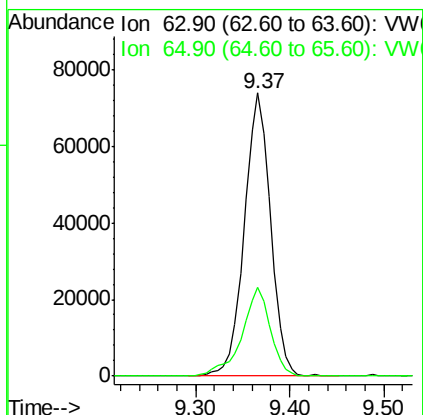
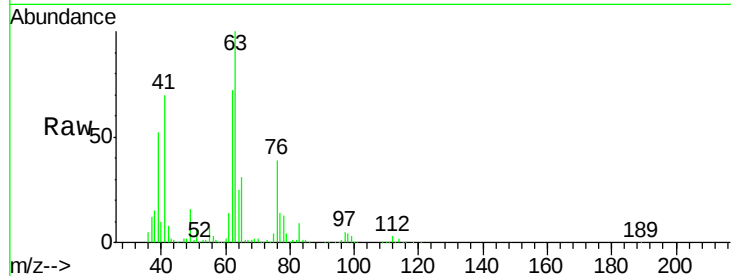




#45
 1,2-Dichloropropane
 Concen: 20.84 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

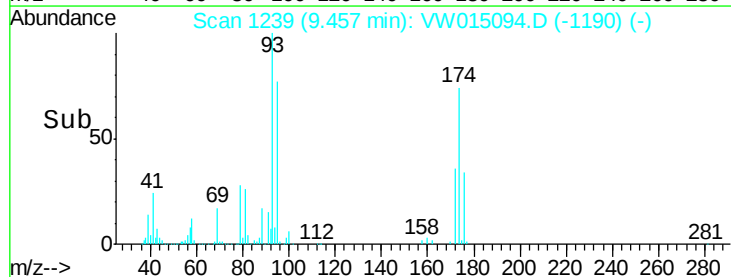
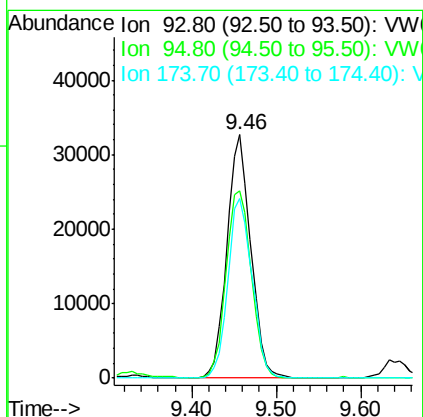
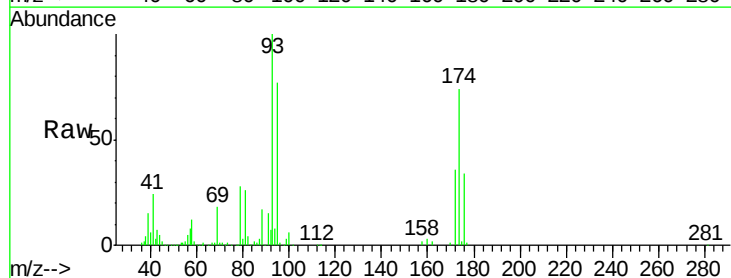
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

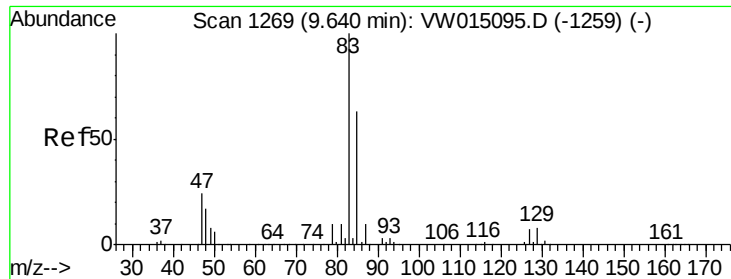
Tgt Ion: 63 Resp: 144568
 Ion Ratio Lower Upper
 63 100
 65 31.4 24.6 36.8



#46
 Dibromomethane
 Concen: 20.94 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion: 93 Resp: 63159
 Ion Ratio Lower Upper
 93 100
 95 82.1 66.6 100.0
 174 74.5 60.6 91.0





#47

Bromodichloromethane

Concen: 20.67 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

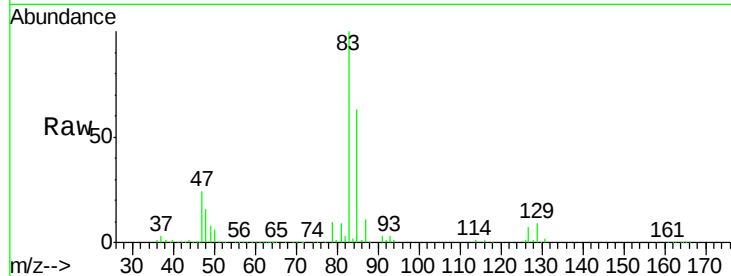
Tgt Ion: 83 Resp: 166448

Ion Ratio Lower Upper

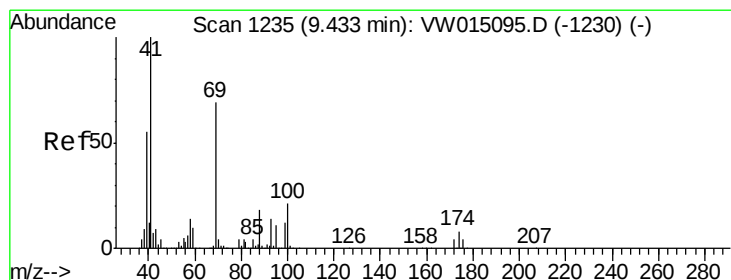
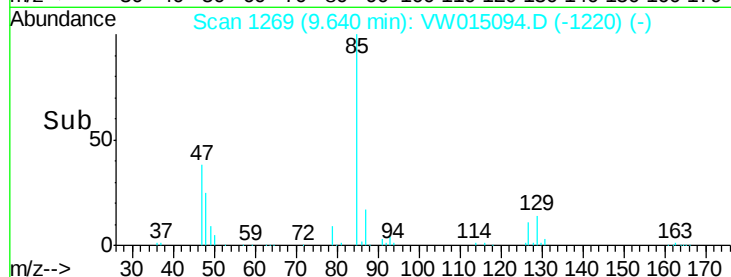
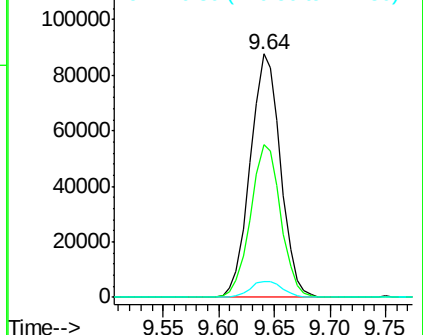
83 100

85 62.8 50.7 76.1

127 6.6 5.5 8.3



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.00 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

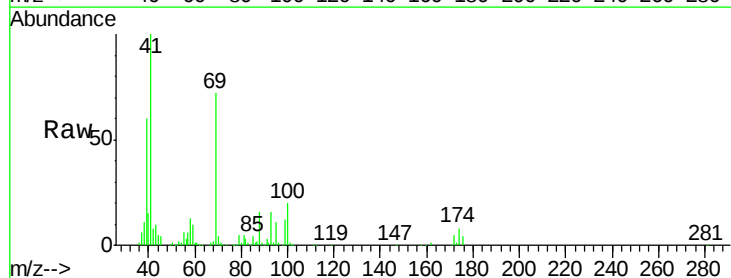
Tgt Ion: 41 Resp: 72604

Ion Ratio Lower Upper

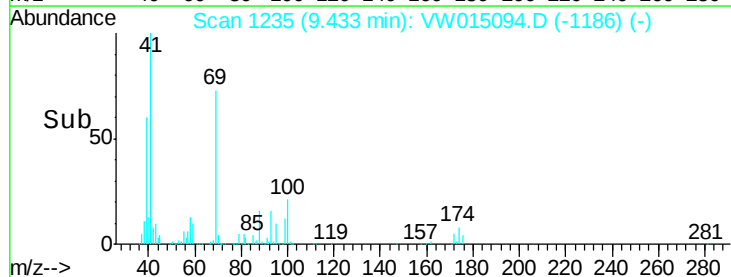
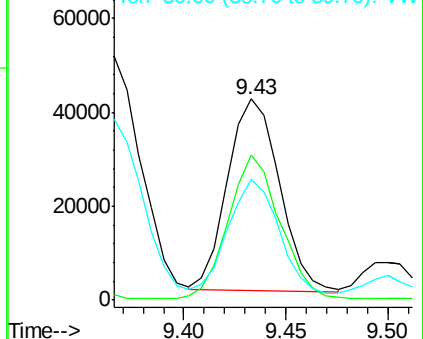
41 100

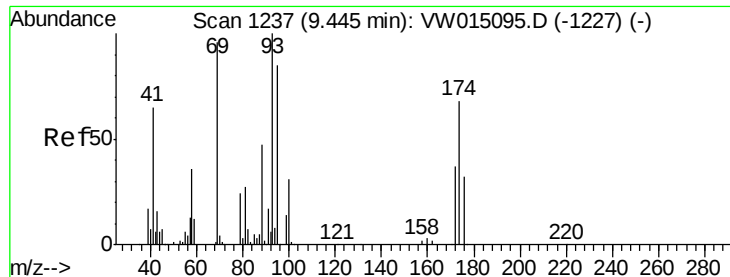
69 76.3 58.7 88.1

39 57.8 45.1 67.7



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

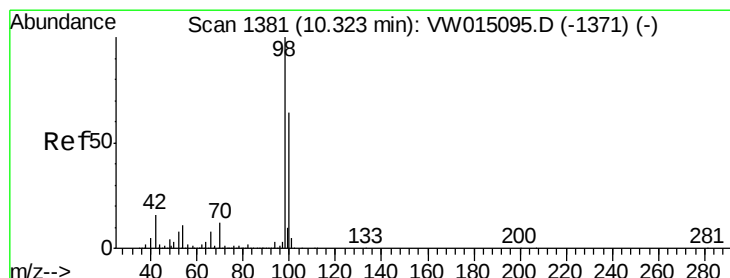
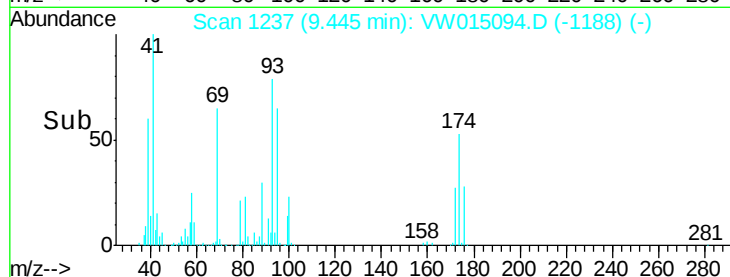
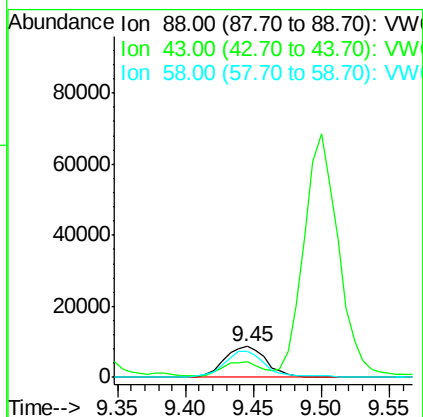
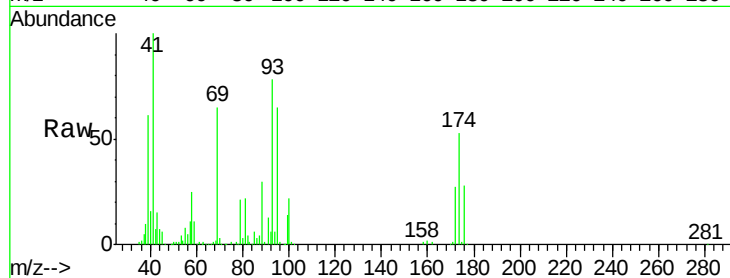




#49
1,4-Dioxane
Concen: 403.47 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

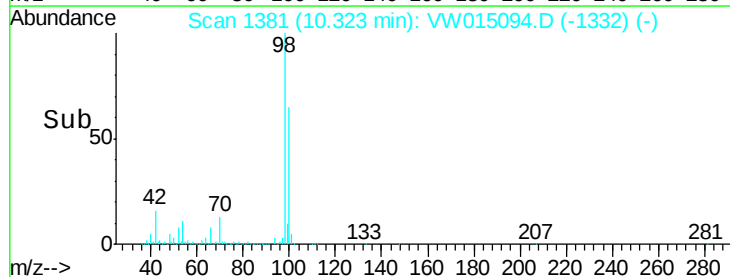
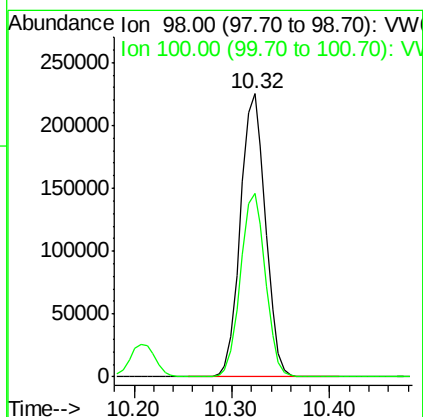
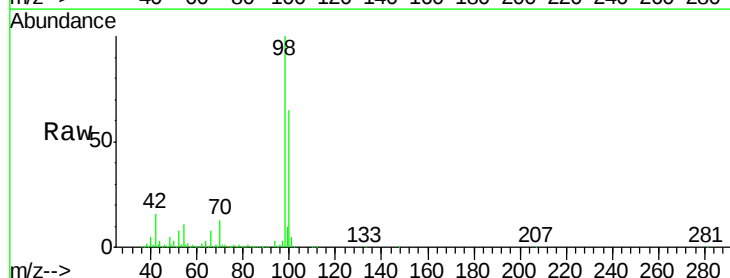
Instrument :
MSVOA_W
ClientSampled :
VSTDIC020

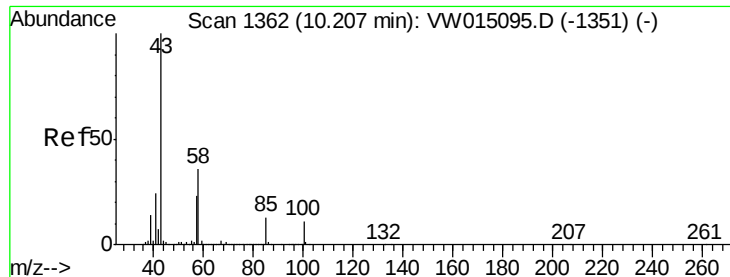
Tgt Ion: 88 Resp: 18631
Ion Ratio Lower Upper
88 100
43 44.0 35.8 53.8
58 81.9 64.0 96.0



#50
Toluene-d8
Concen: 19.95 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 98 Resp: 399733
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 95.79 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampled :

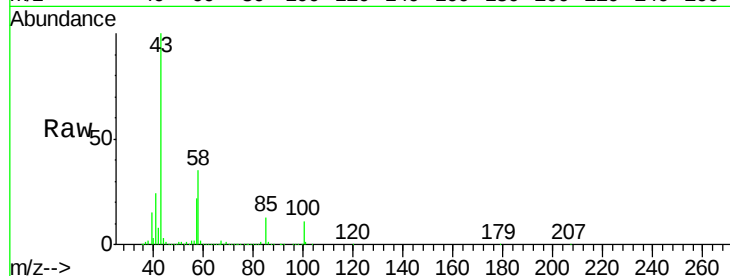
VSTDIC020

Tgt Ion: 43 Resp: 438158

Ion Ratio Lower Upper

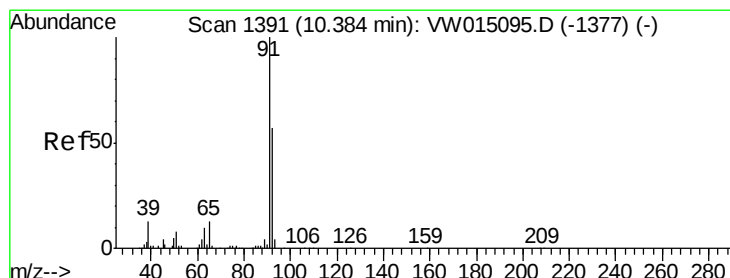
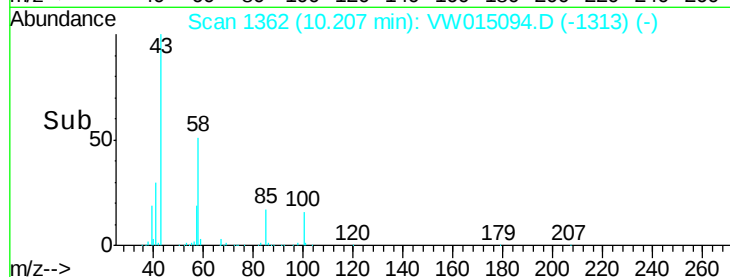
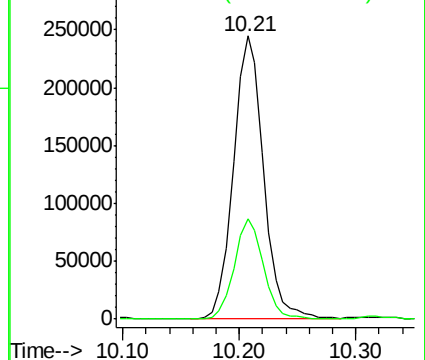
43 100

58 34.5 28.0 42.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 20.84 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW015094.D

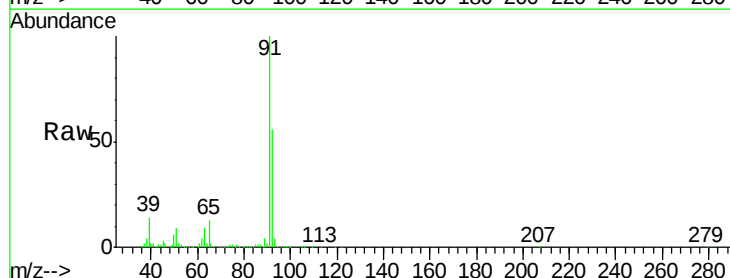
Acq: 09 Mar 2020 11:28

Tgt Ion: 92 Resp: 308402

Ion Ratio Lower Upper

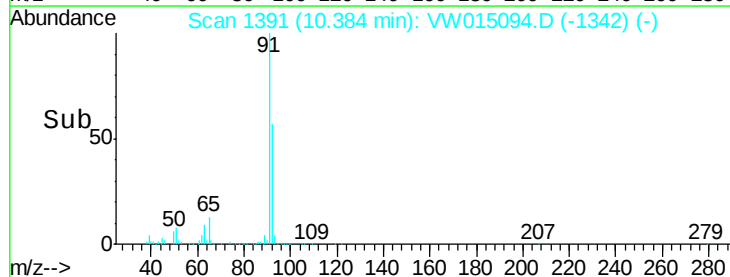
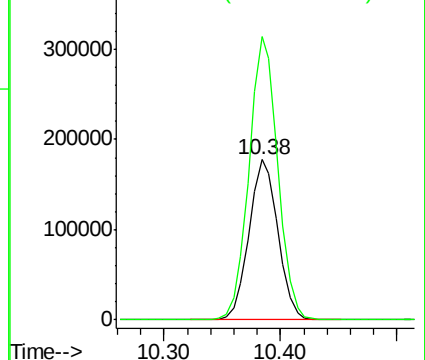
92 100

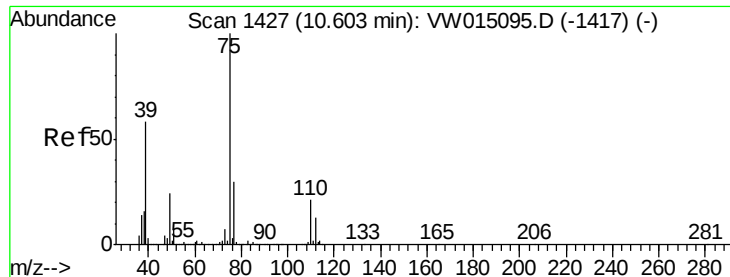
91 174.4 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 20.24 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

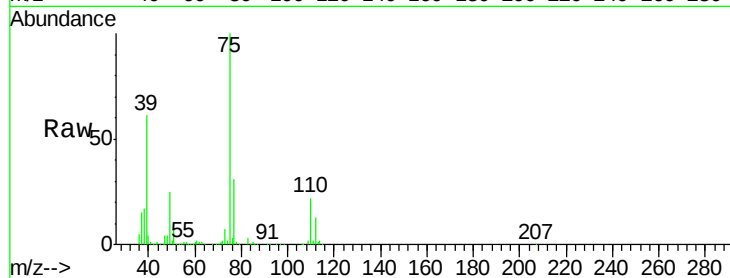
VSTDIC020

Tgt Ion: 75 Resp: 160300

Ion Ratio Lower Upper

75 100

77 30.3 24.4 36.6



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

10.60

80000

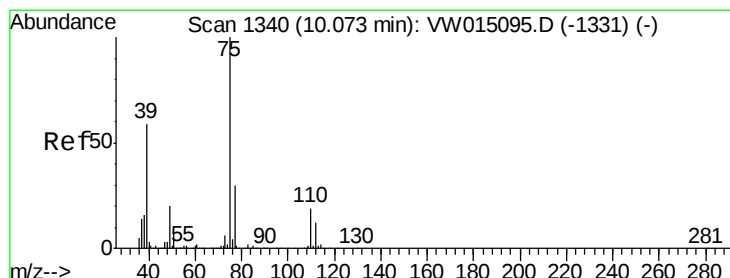
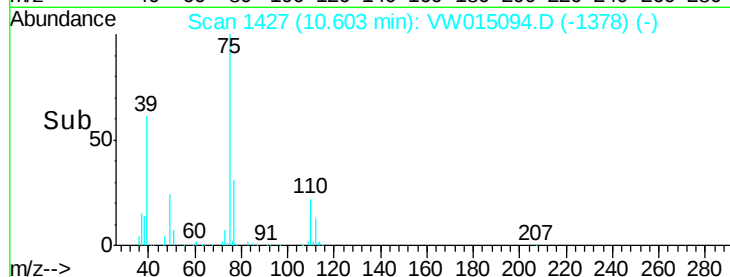
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 20.35 ug/l

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

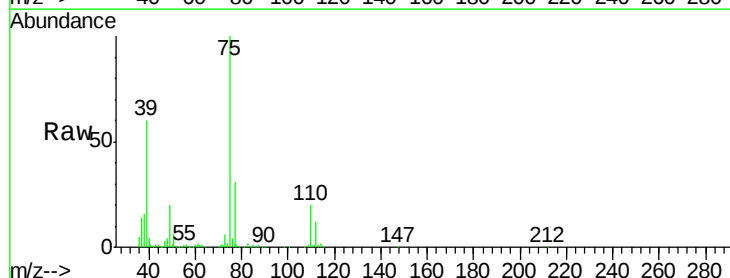
Tgt Ion: 75 Resp: 196350

Ion Ratio Lower Upper

75 100

77 31.0 24.3 36.5

39 59.6 47.0 70.6



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

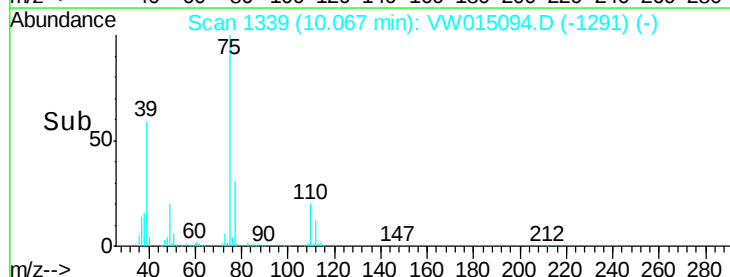
150000

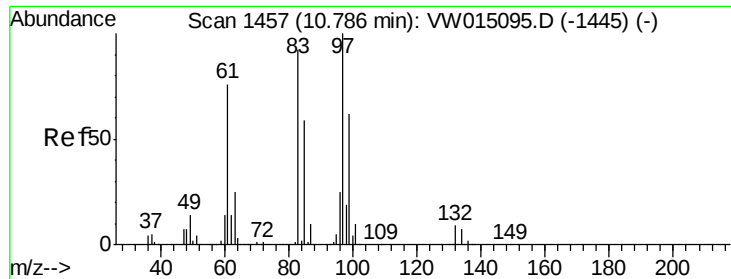
100000

50000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 20.35 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 84096

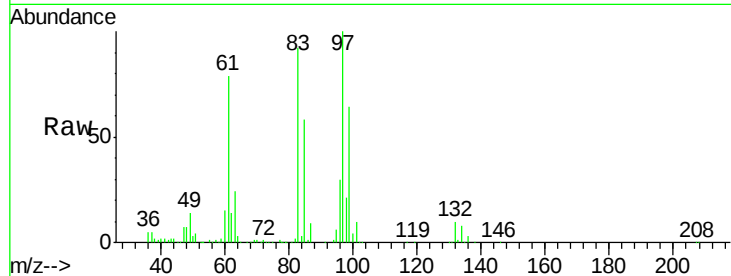
Ion Ratio Lower Upper

97 100

83 92.4 74.0 111.0

85 58.3 46.9 70.3

99 63.6 49.8 74.8

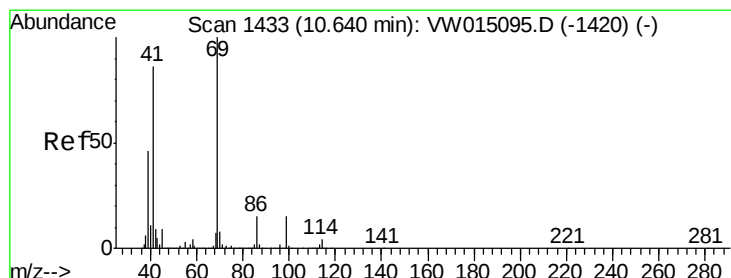
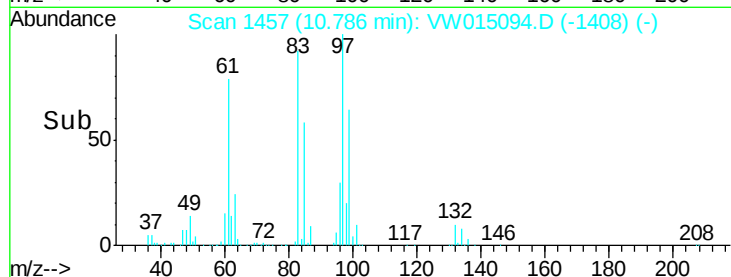
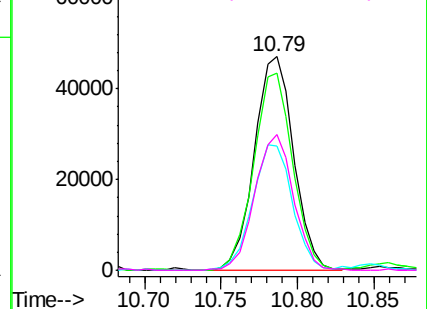


Abundance Ion 96.90 (96.60 to 97.60): VW

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: 19.21 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

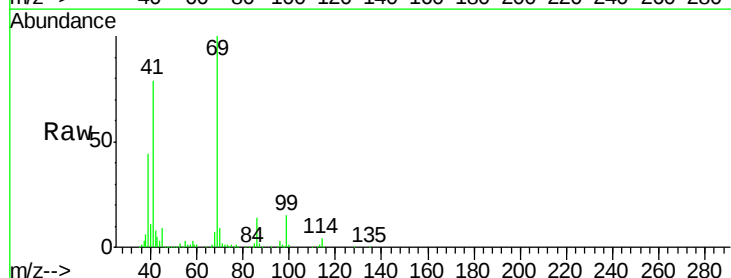
Tgt Ion: 69 Resp: 102450

Ion Ratio Lower Upper

69 100

41 82.5 65.8 98.6

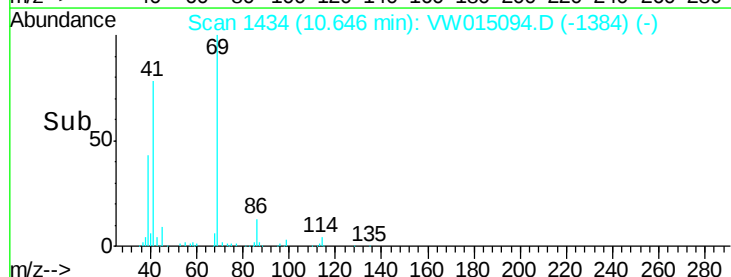
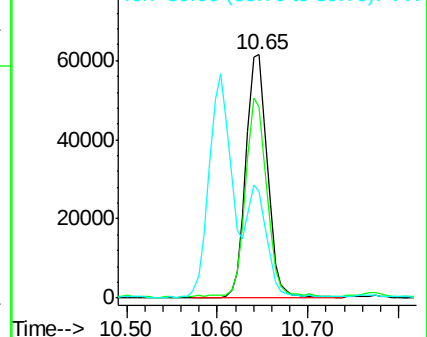
39 39.9 31.2 46.8

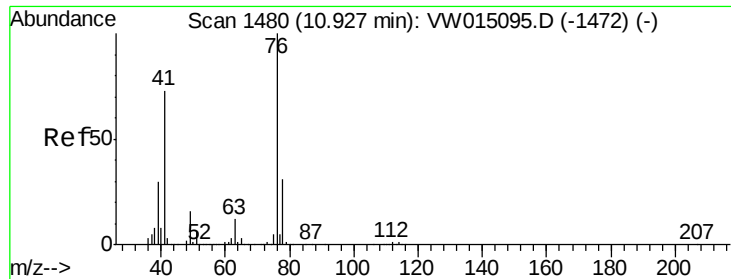


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

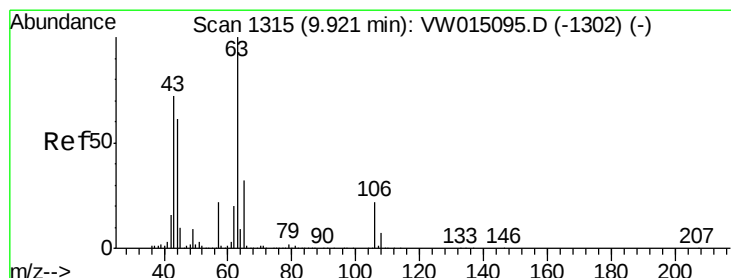
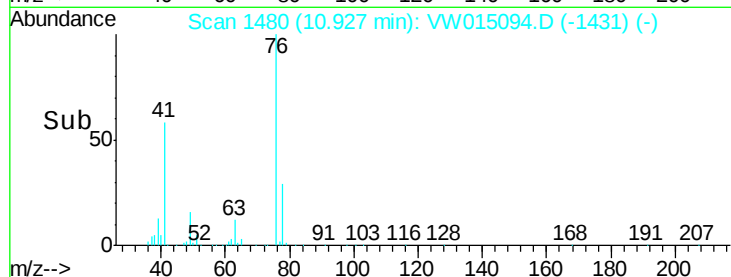
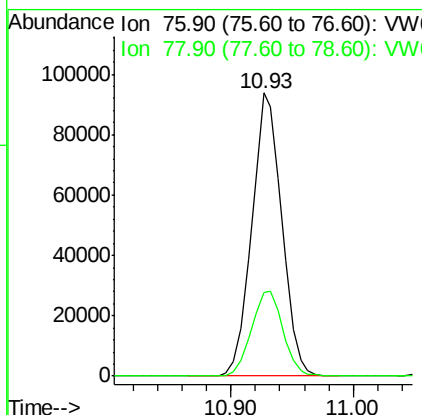
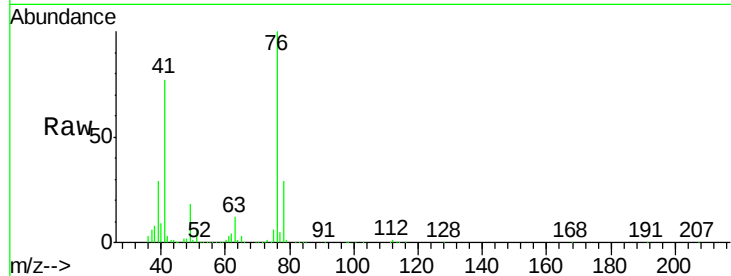




#57
 1,3-Dichloropropane
 Concen: 20.36 ug/l
 RT: 10.93 min Scan# 1480
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

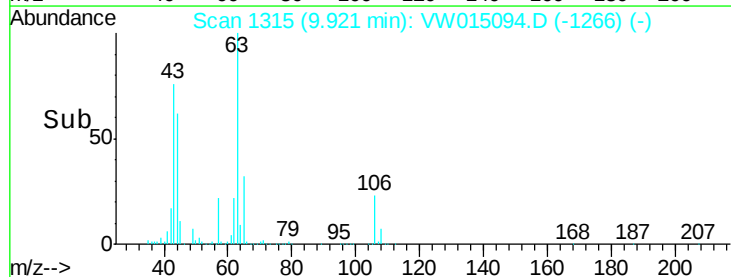
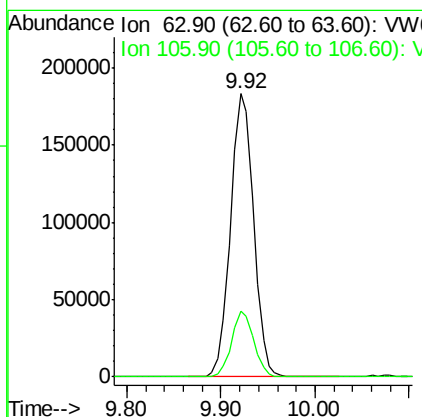
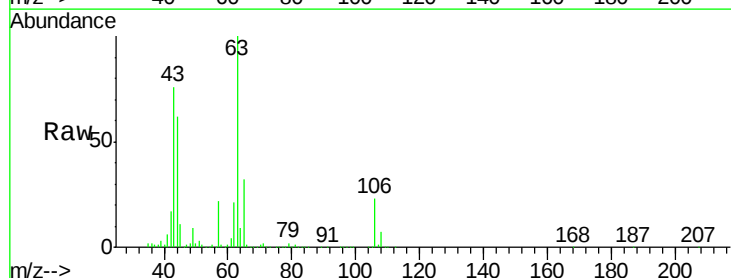
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

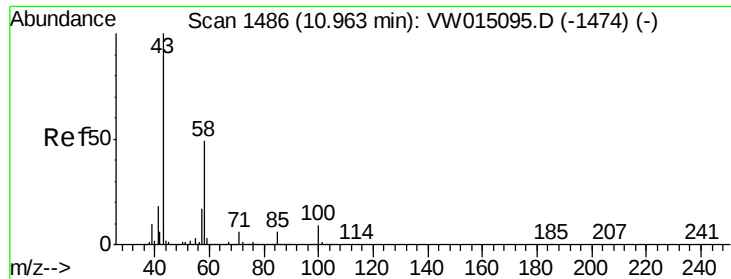
Tgt Ion: 76 Resp: 160171
 Ion Ratio Lower Upper
 76 100
 78 31.6 25.3 37.9



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.82 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion: 63 Resp: 312314
 Ion Ratio Lower Upper
 63 100
 106 22.4 18.0 27.0

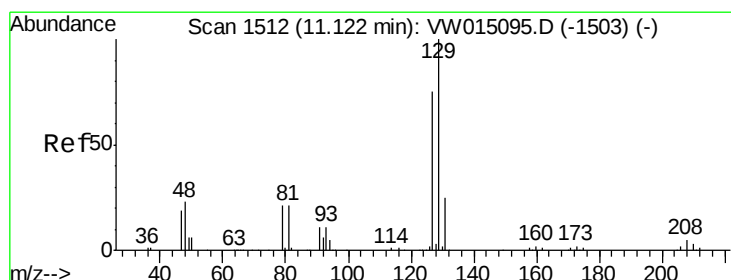
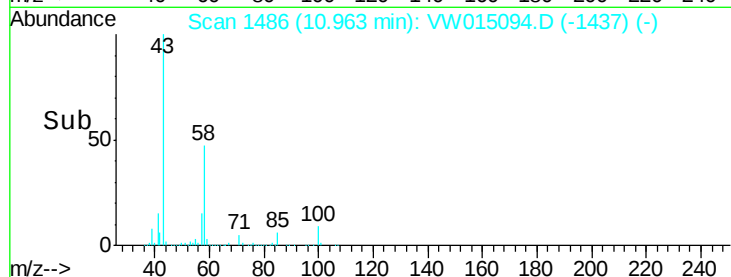
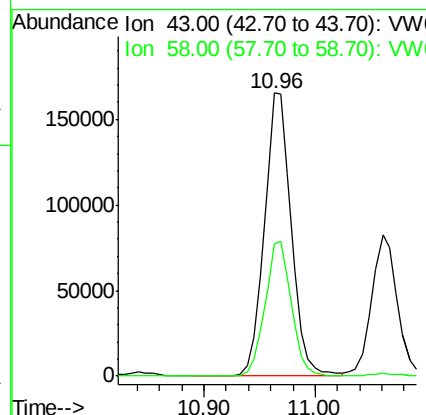
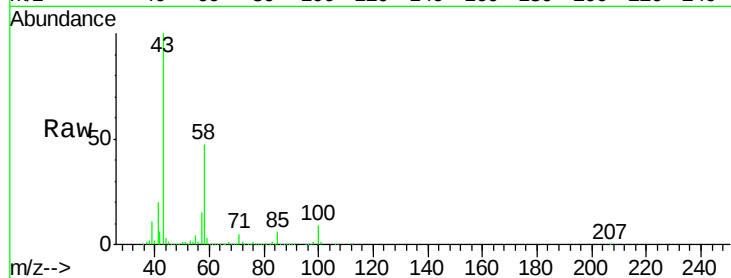




#59
2-Hexanone
Concen: 97.40 ug/l
RT: 10.96 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

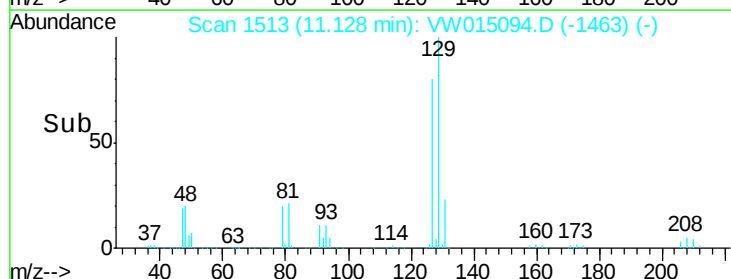
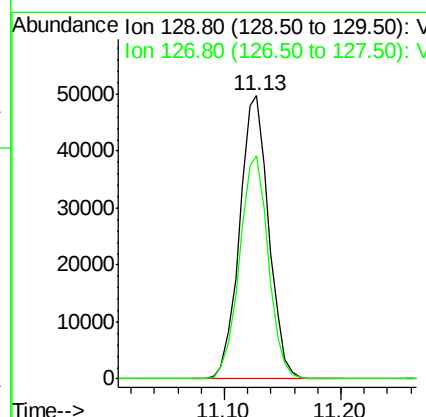
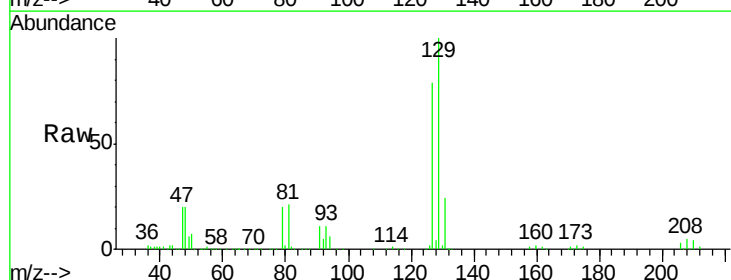
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

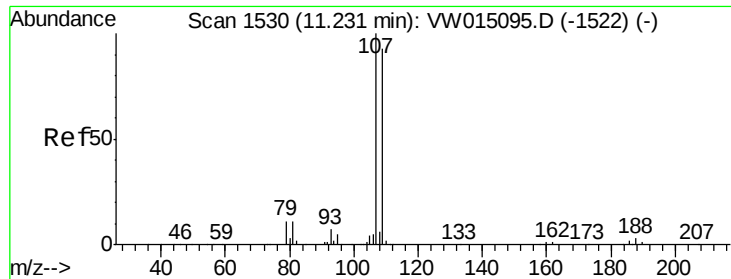
Tgt Ion: 43 Resp: 278279
Ion Ratio Lower Upper
43 100
58 46.9 24.6 73.8



#60
Dibromochloromethane
Concen: 20.26 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 129 Resp: 86472
Ion Ratio Lower Upper
129 100
127 78.1 38.7 116.1

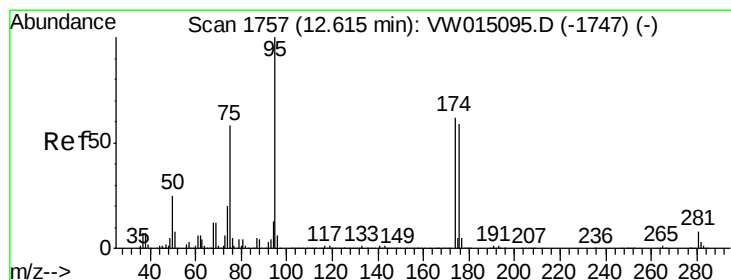
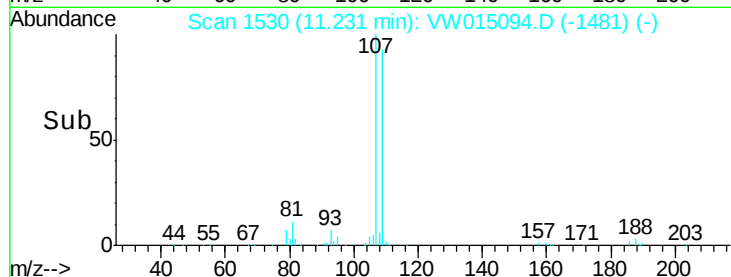
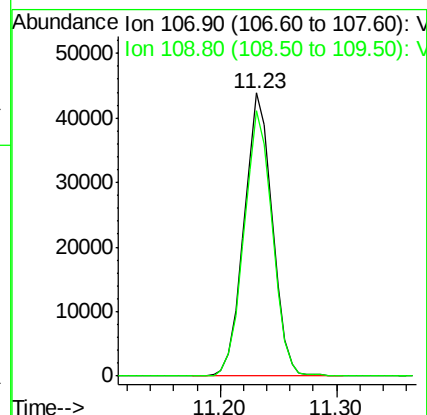
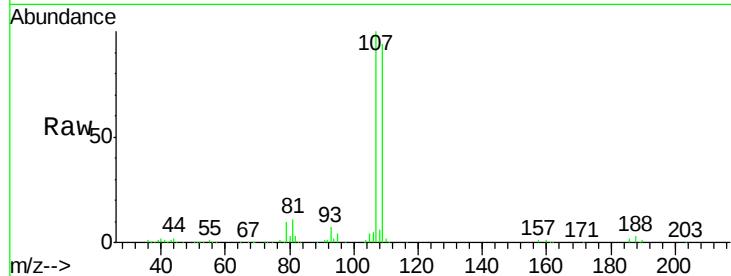




#61
 1,2-Dibromoethane
 Concen: 20.27 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

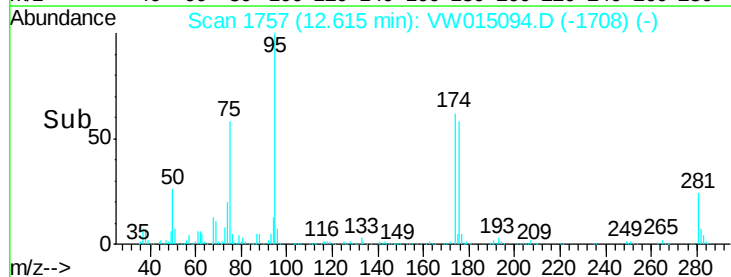
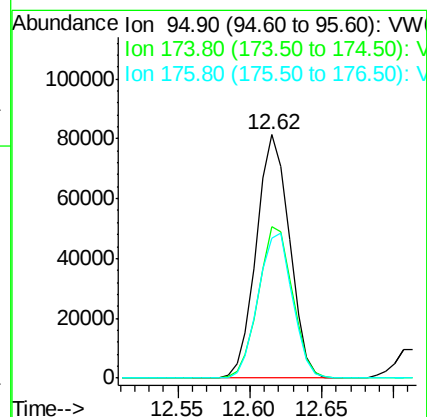
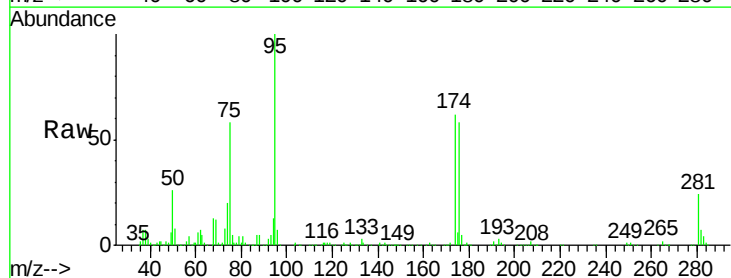
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

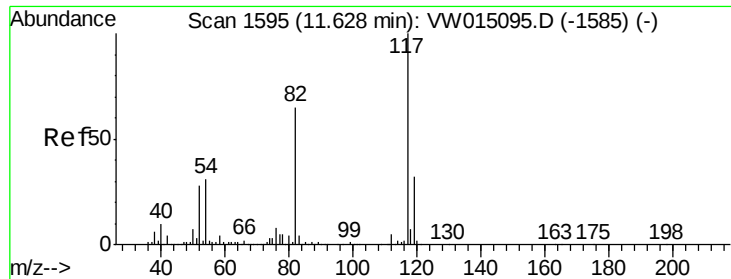
Tgt Ion: 107 Resp: 74274
 Ion Ratio Lower Upper
 107 100
 109 94.3 75.3 112.9



#62
 4-Bromofluorobenzene
 Concen: 19.45 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion: 95 Resp: 129450
 Ion Ratio Lower Upper
 95 100
 174 63.9 0.0 126.8
 176 61.6 0.0 121.6

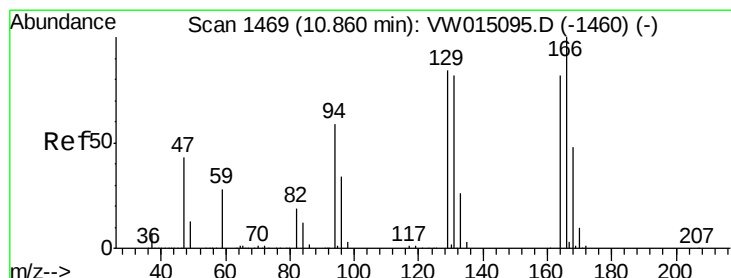
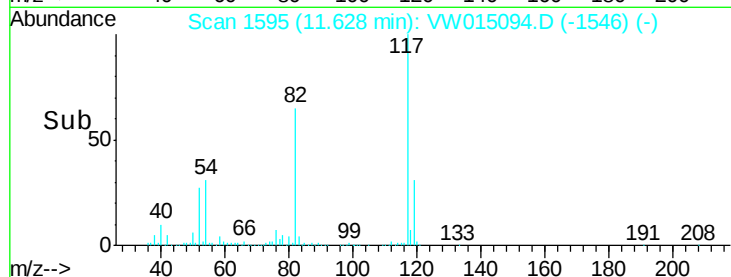
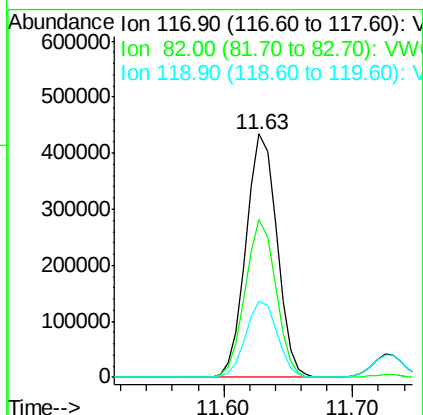
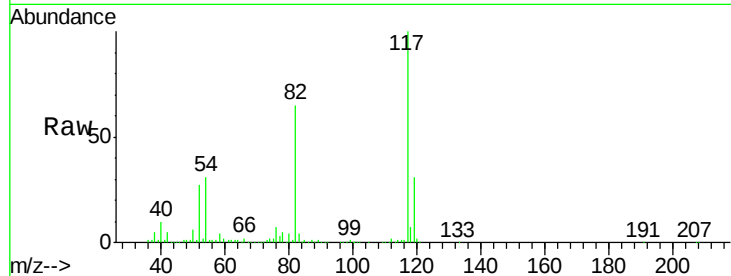




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

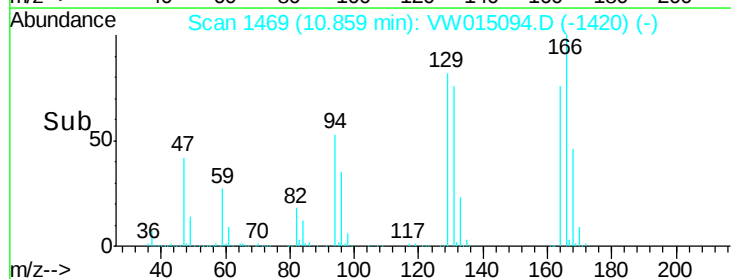
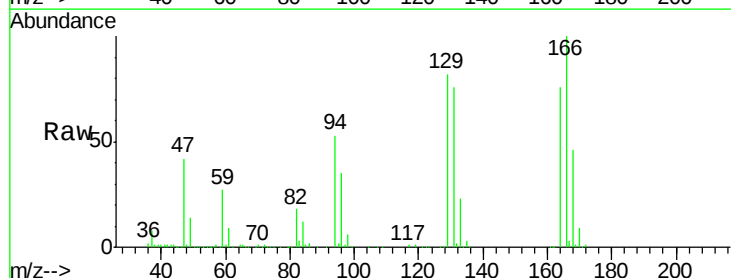
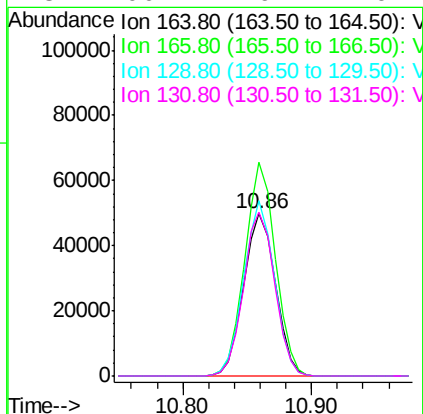
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

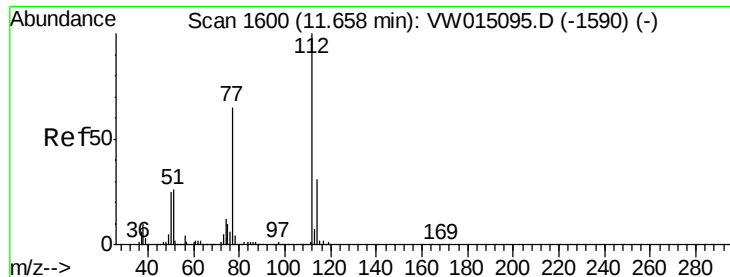
Tgt Ion:117 Resp: 721450
Ion Ratio Lower Upper
117 100
82 64.7 52.2 78.2
119 31.4 25.4 38.0



#64
Tetrachloroethene
Concen: 20.43 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion:164 Resp: 85059
Ion Ratio Lower Upper
164 100
166 131.6 97.0 145.6
129 107.9 81.2 121.8
131 100.4 79.4 119.2

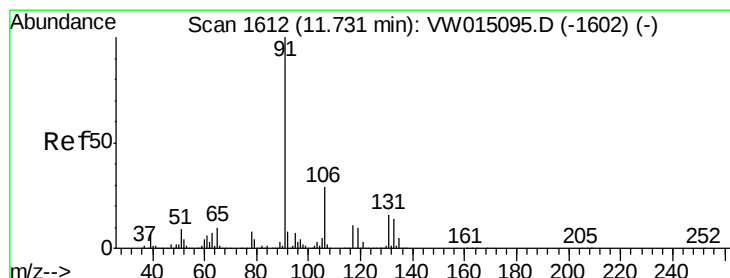
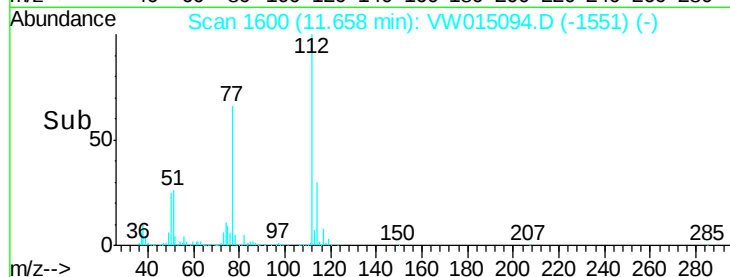
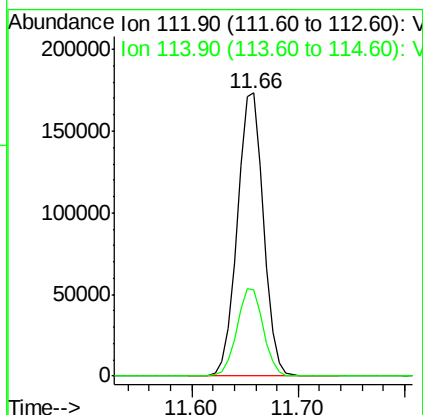
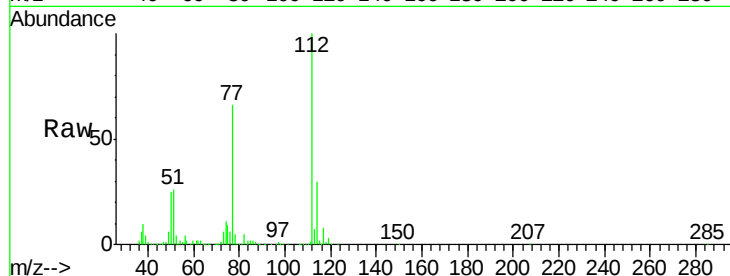




#65
Chlorobenzene
Concen: 20.63 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

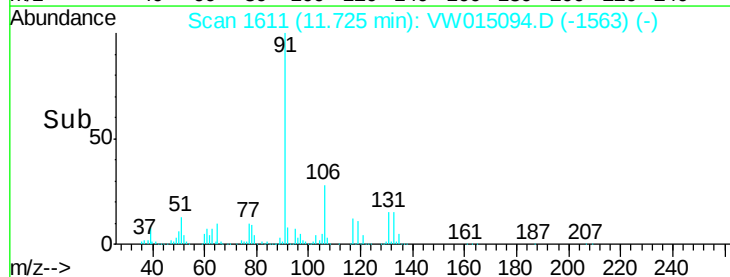
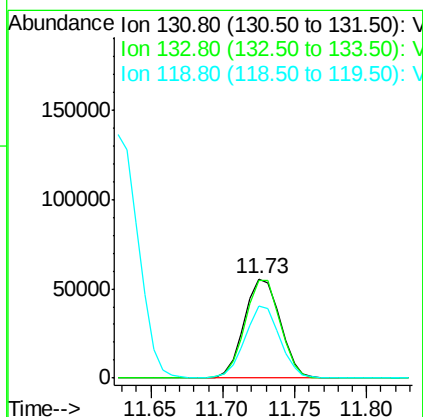
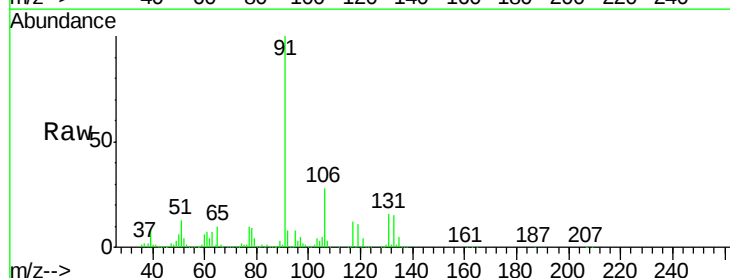
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

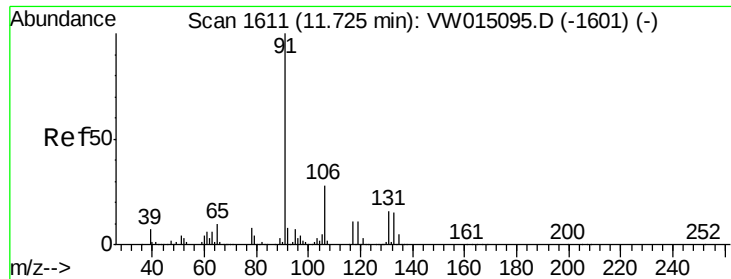
Tgt Ion:112 Resp: 298724
Ion Ratio Lower Upper
112 100
114 30.4 25.0 37.6



#66
1,1,1,2-Tetrachloroethane
Concen: 19.98 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. -0.01 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion:131 Resp: 96354
Ion Ratio Lower Upper
131 100
133 96.9 47.3 141.8
119 70.9 34.0 101.8

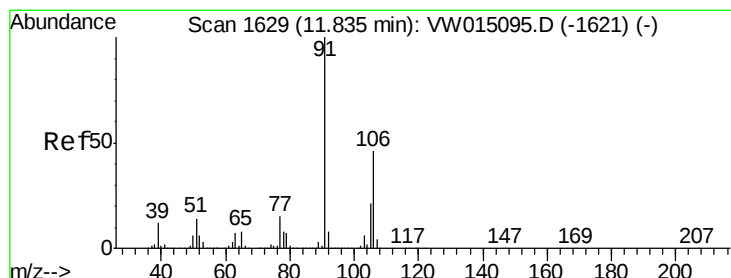
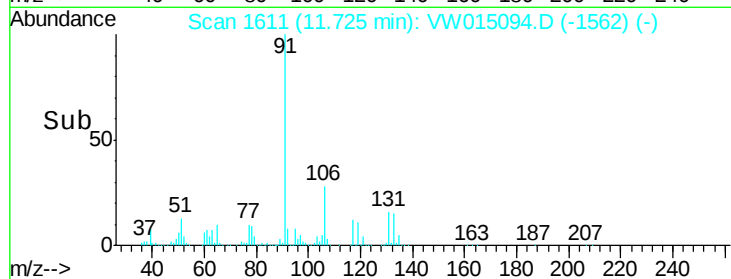
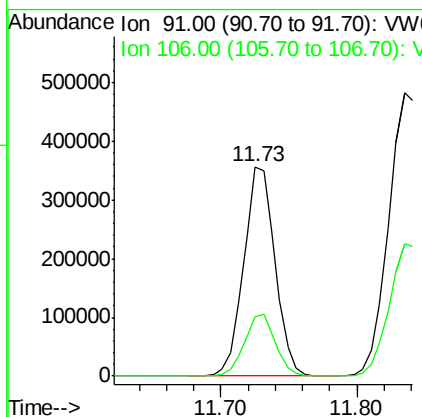
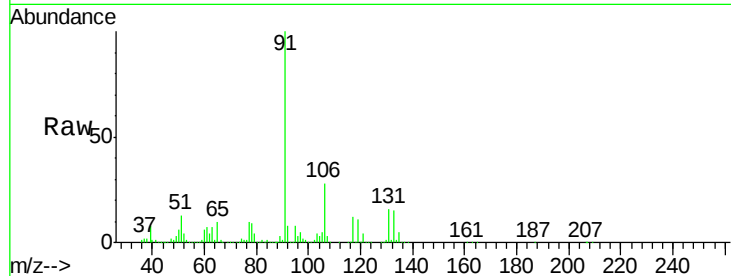




#67
Ethyl Benzene
Concen: 20.35 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

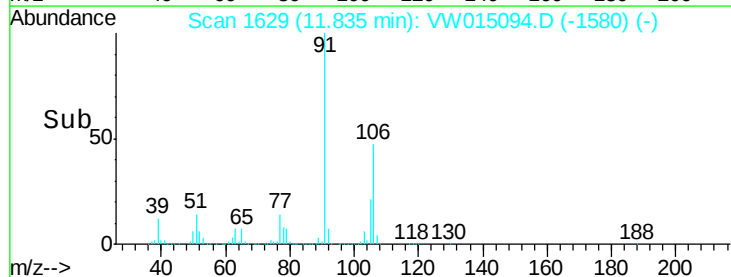
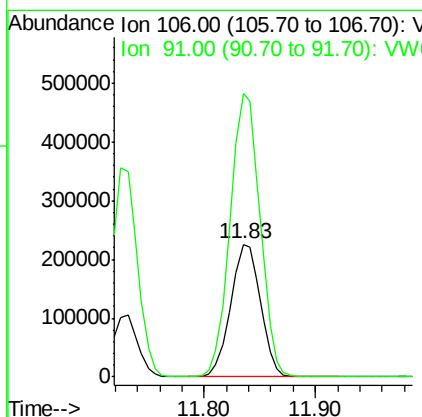
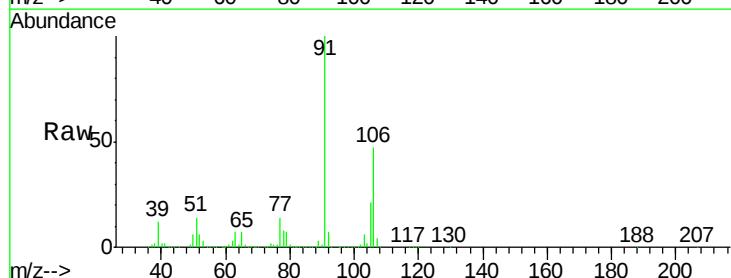
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

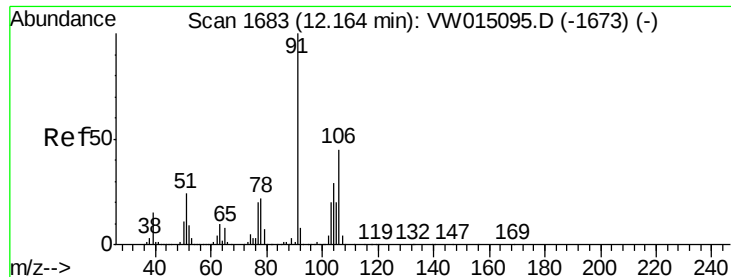
Tgt Ion: 91 Resp: 573398
Ion Ratio Lower Upper
91 100
106 28.2 22.8 34.2



#68
m/p-Xylenes
Concen: 41.96 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion: 106 Resp: 417949
Ion Ratio Lower Upper
106 100
91 214.4 172.3 258.5

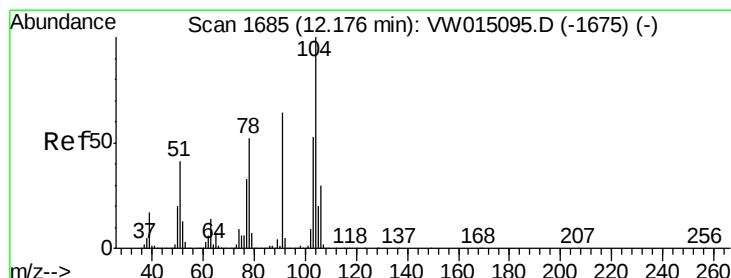
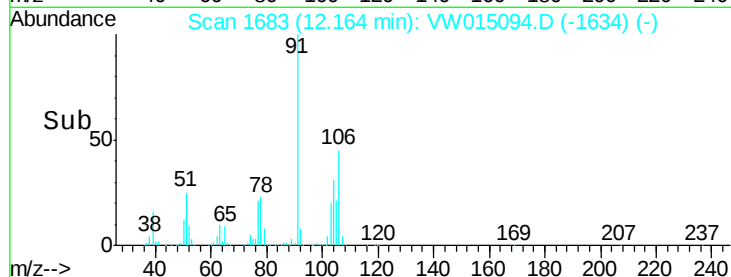
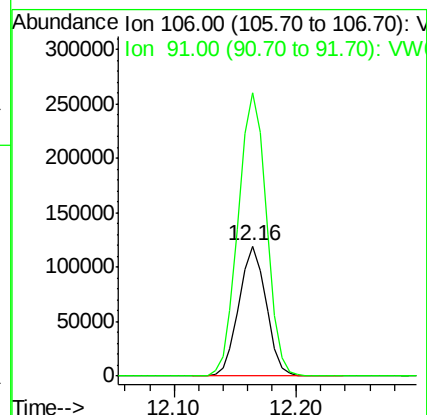
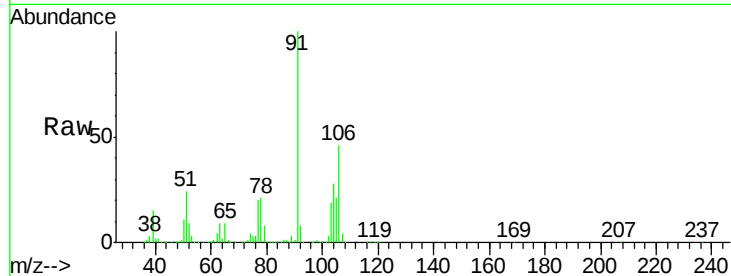




#69
o-Xylene
Concen: 20.49 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

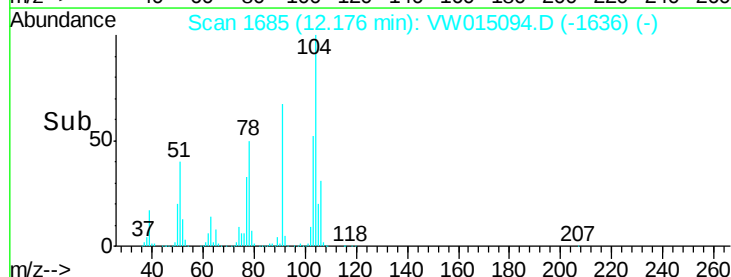
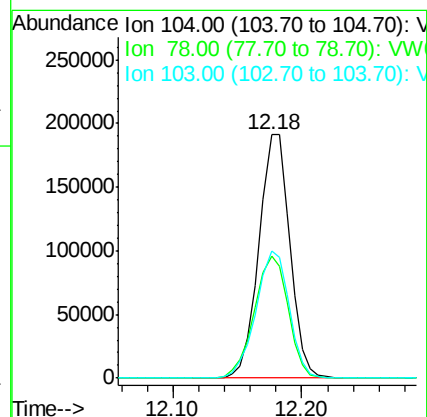
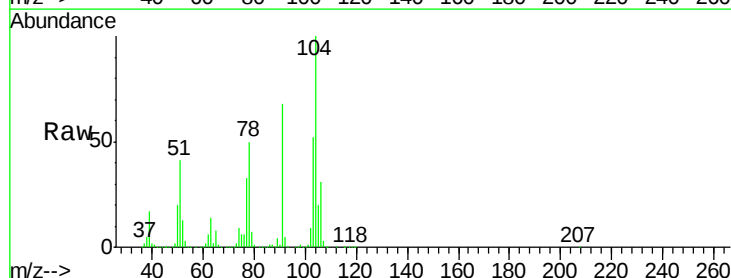
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC020

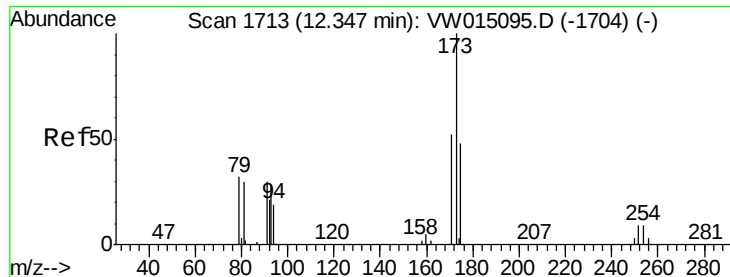
Tgt Ion:106 Resp: 183881
Ion Ratio Lower Upper
106 100
91 225.9 112.6 337.8



#70
Styrene
Concen: 20.64 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW015094.D
Acq: 09 Mar 2020 11:28

Tgt Ion:104 Resp: 317294
Ion Ratio Lower Upper
104 100
78 55.2 44.7 67.1
103 56.2 44.7 67.1





#71

Bromoform

Concen: 19.30 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

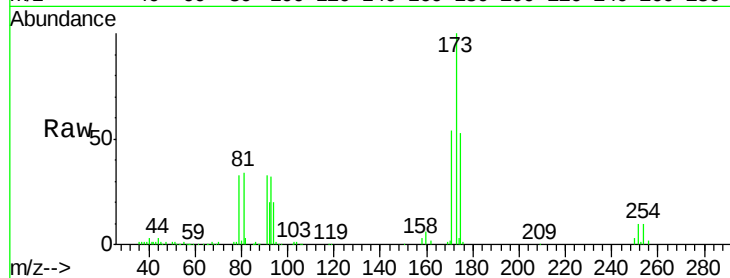
Tgt Ion:173 Resp: 41293

Ion Ratio Lower Upper

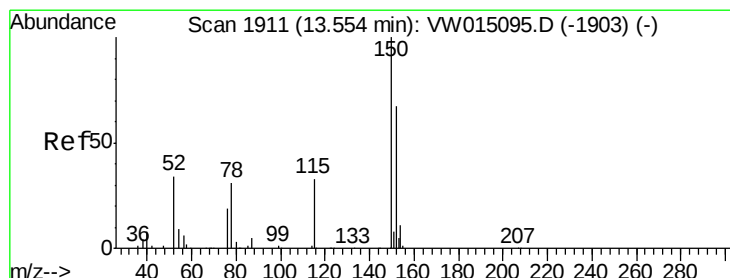
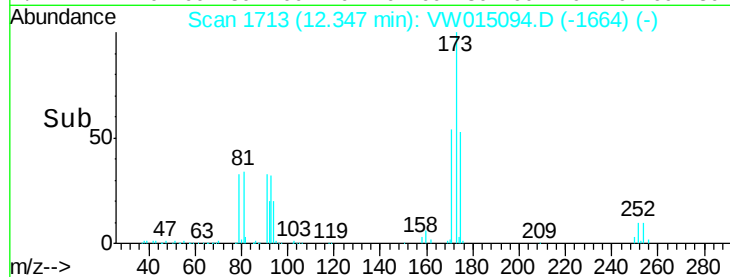
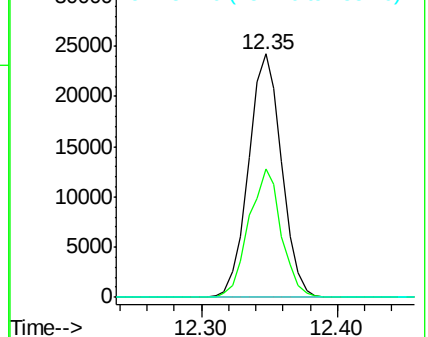
173 100

175 51.7 23.8 71.4

254 0.1 0.1 0.1#



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: 50.00 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

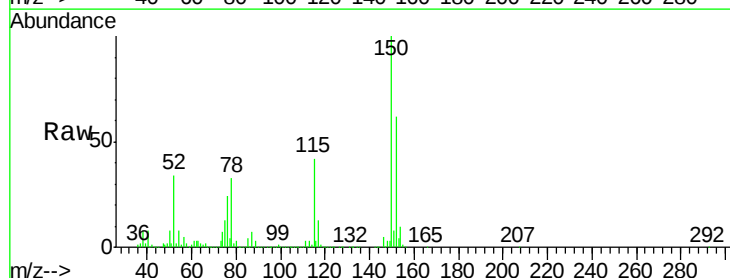
Tgt Ion:152 Resp: 333472

Ion Ratio Lower Upper

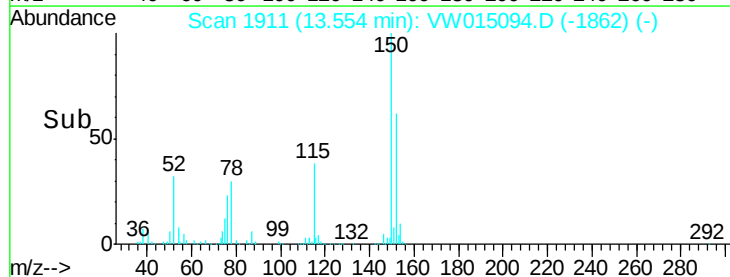
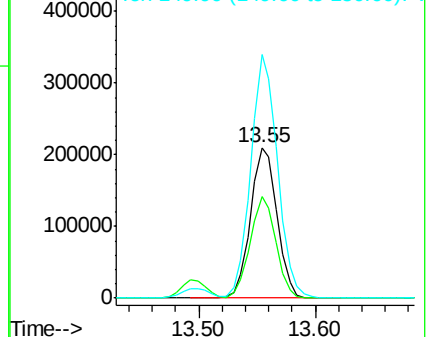
152 100

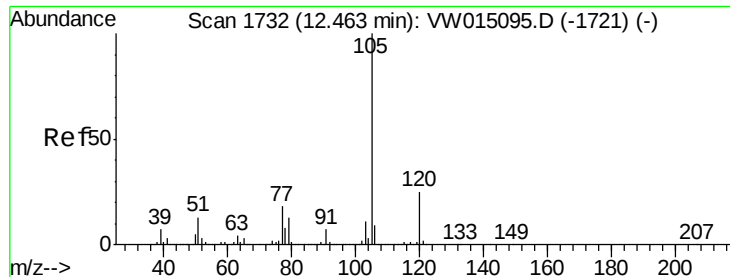
115 65.5 33.3 99.9

150 163.5 0.0 351.2



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: 20.29 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

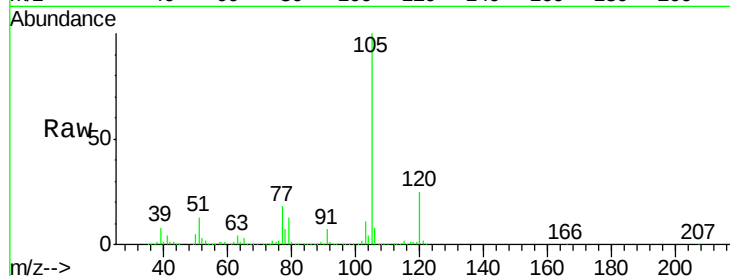
VSTDIC020

Tgt Ion:105 Resp: 516946

Ion Ratio Lower Upper

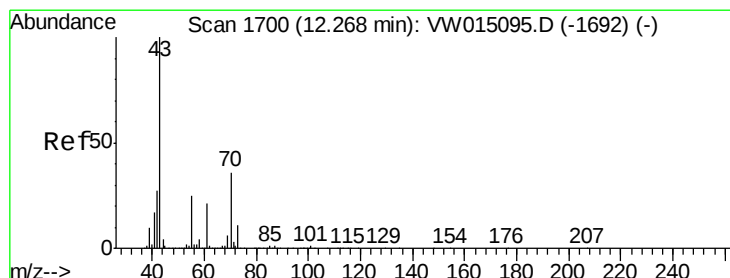
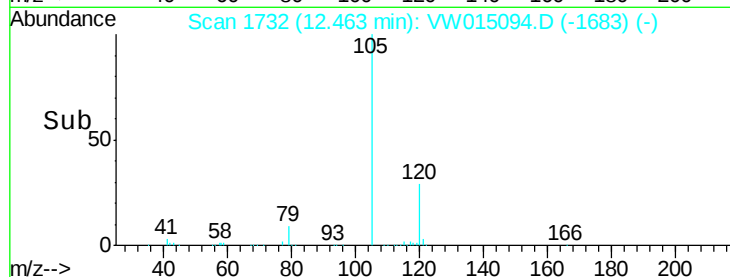
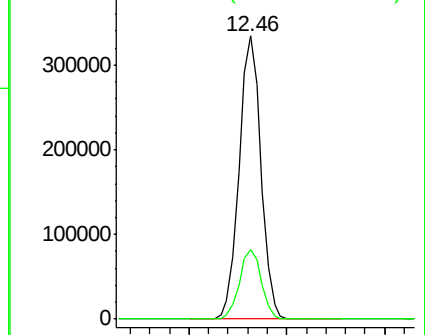
105 100

120 24.7 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.86 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Tgt Ion: 43 Resp: 141980

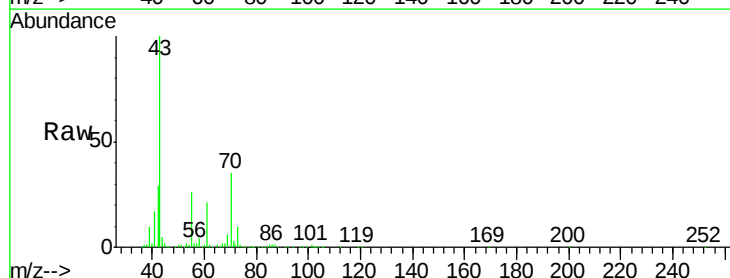
Ion Ratio Lower Upper

43 100

70 36.9 29.4 44.2

55 27.6 20.3 30.5

61 21.7 17.1 25.7

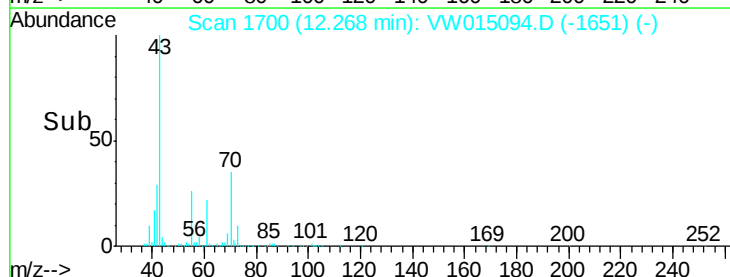
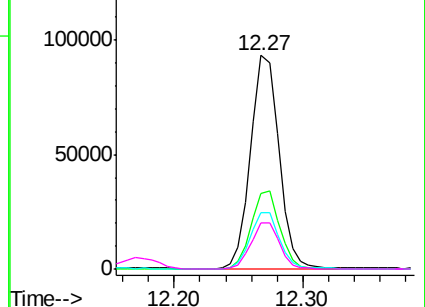


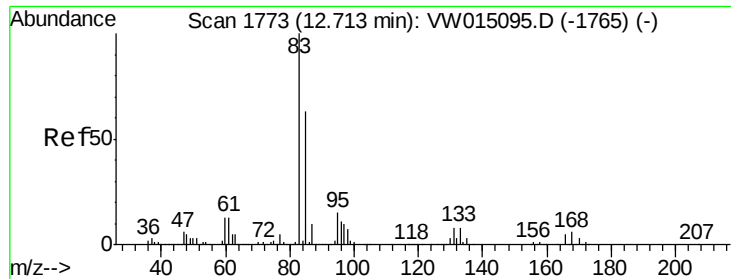
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 19.68 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

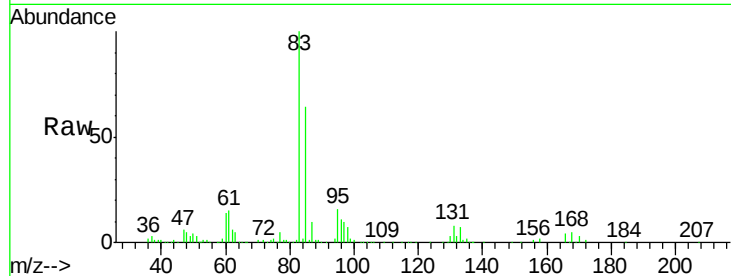
Tgt Ion: 83 Resp: 101817

Ion Ratio Lower Upper

83 100

131 8.5 4.3 13.1

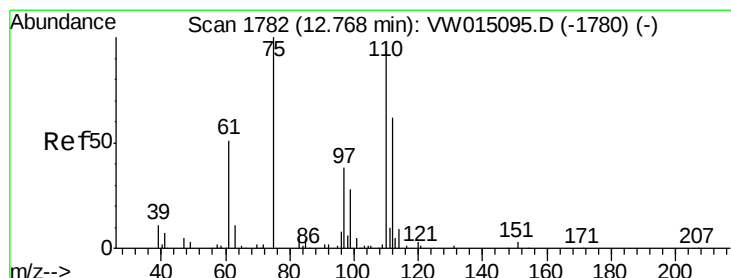
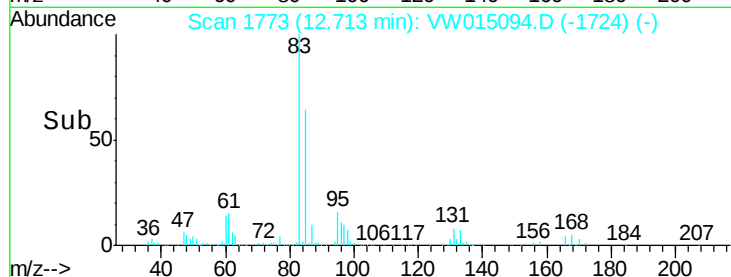
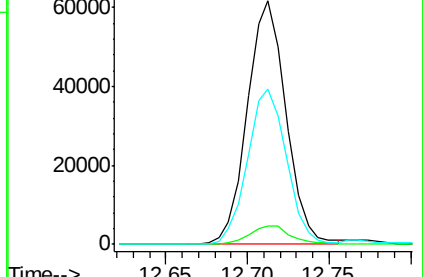
85 64.3 31.5 94.5



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: 21.63 ug/l

RT: 12.76 min Scan# 1781

Delta R.T. -0.01 min

Lab File: VW015094.D

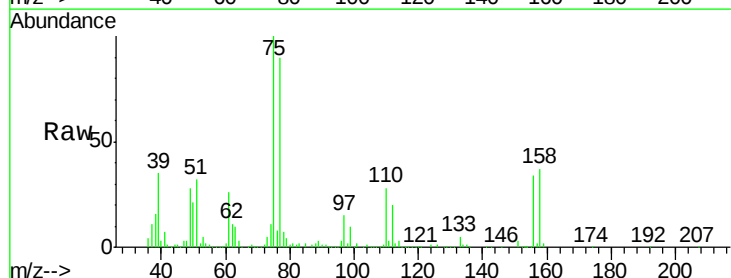
Acq: 09 Mar 2020 11:28

Tgt Ion: 75 Resp: 133685

Ion Ratio Lower Upper

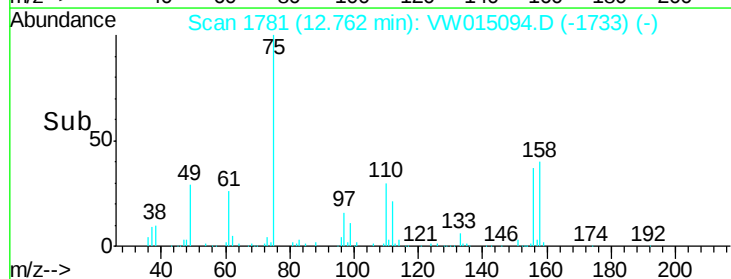
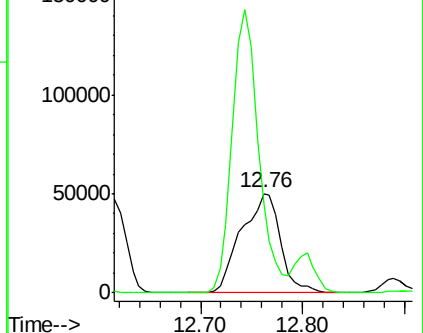
75 100

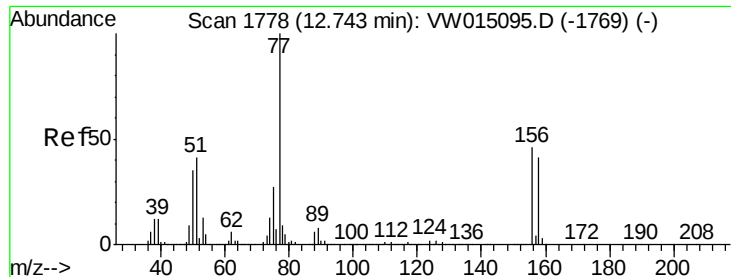
77 194.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 20.13 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

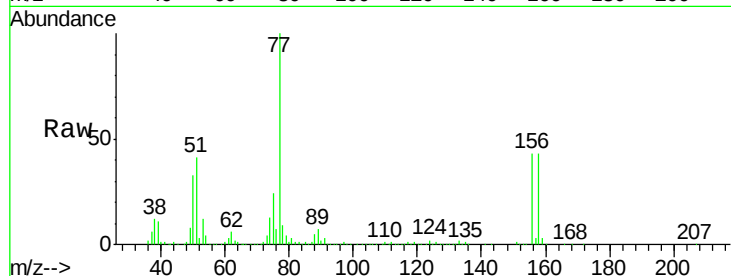
Tgt Ion:156 Resp: 101334

Ion Ratio Lower Upper

156 100

77 255.9 126.6 379.8

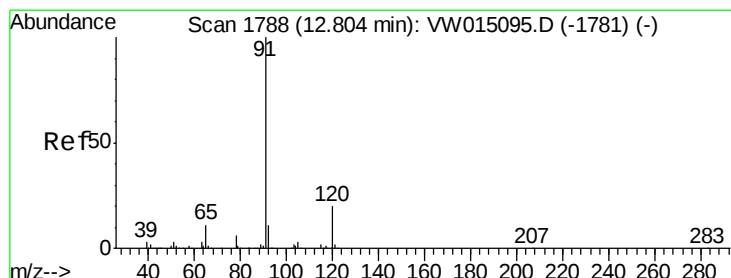
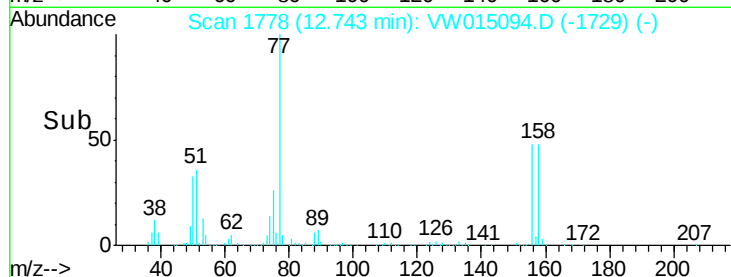
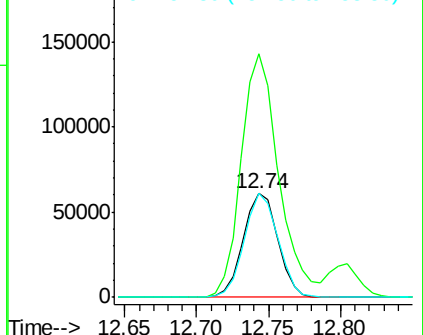
158 97.4 47.4 142.2



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: 20.69 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW015094.D

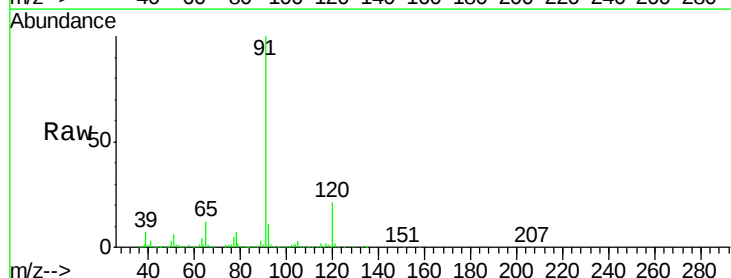
Acq: 09 Mar 2020 11:28

Tgt Ion: 91 Resp: 684911

Ion Ratio Lower Upper

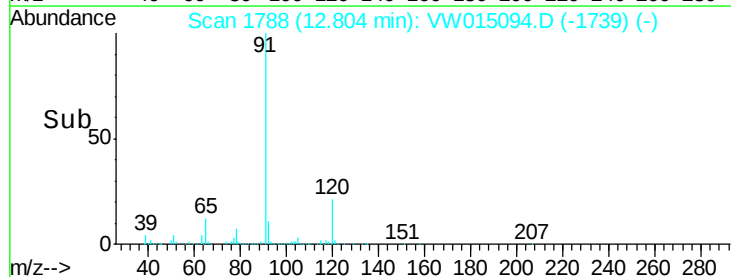
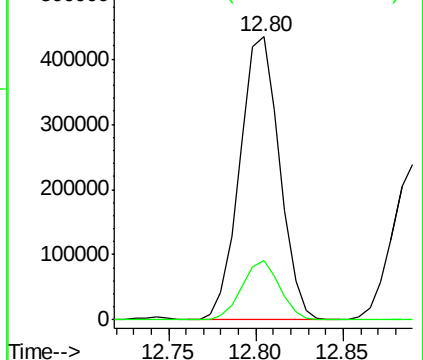
91 100

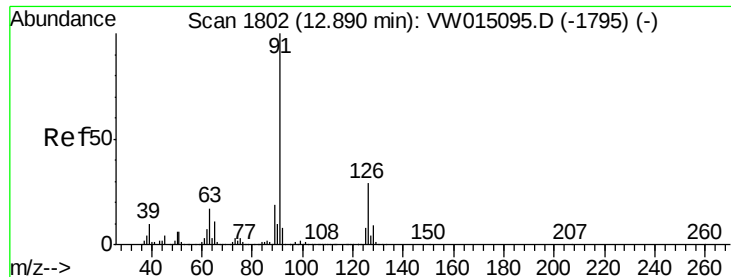
120 20.2 10.2 30.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.46 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

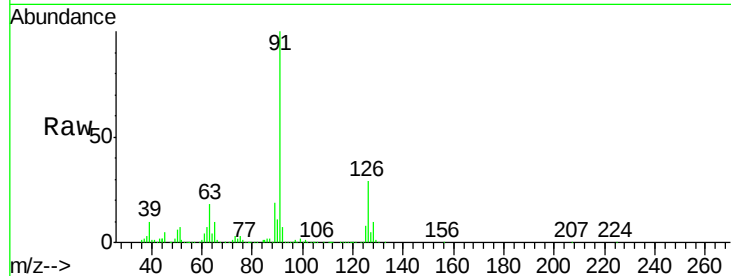
VSTDIC020

Tgt Ion: 91 Resp: 380844

Ion Ratio Lower Upper

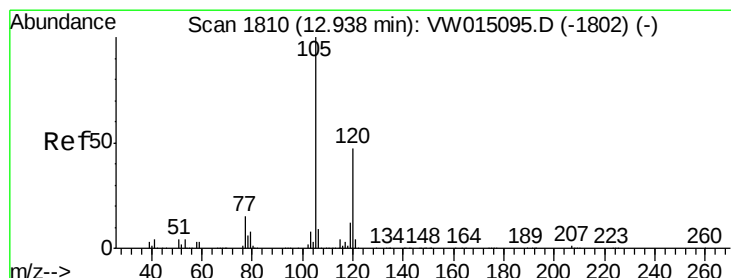
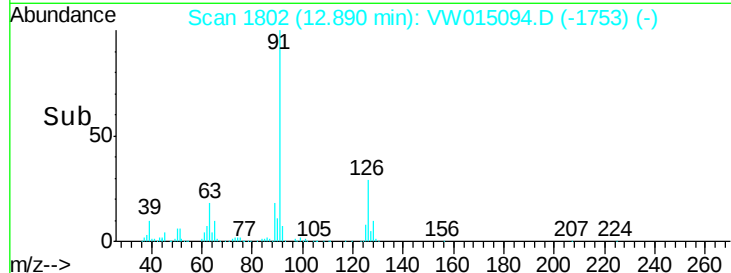
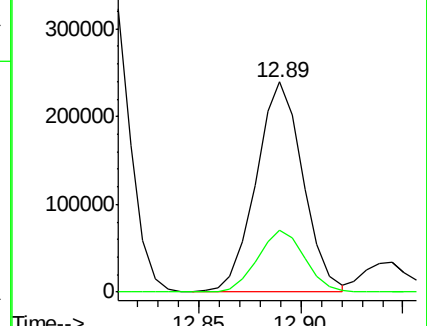
91 100

126 29.6 14.5 43.6



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: 20.72 ug/l

RT: 12.94 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VW015094.D

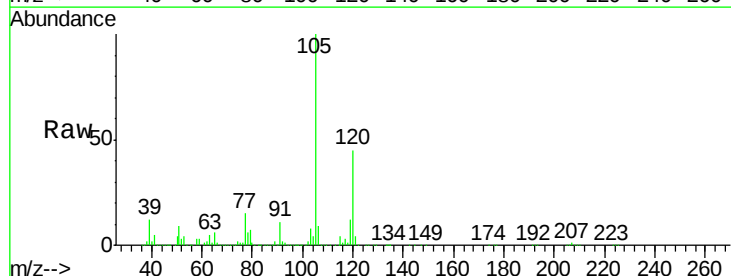
Acq: 09 Mar 2020 11:28

Tgt Ion: 105 Resp: 453747

Ion Ratio Lower Upper

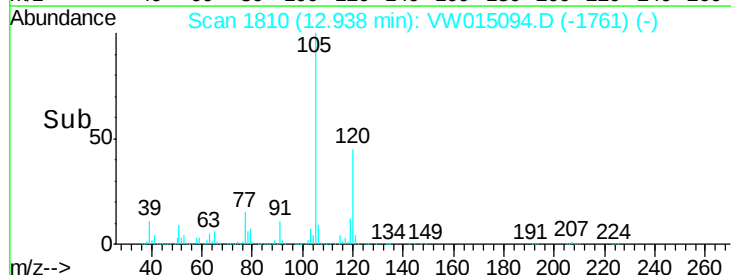
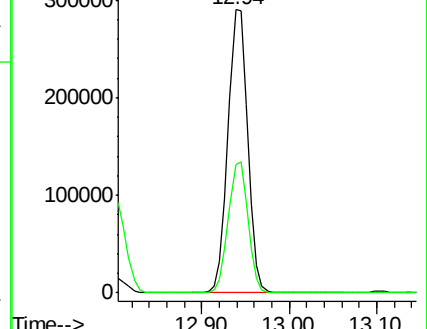
105 100

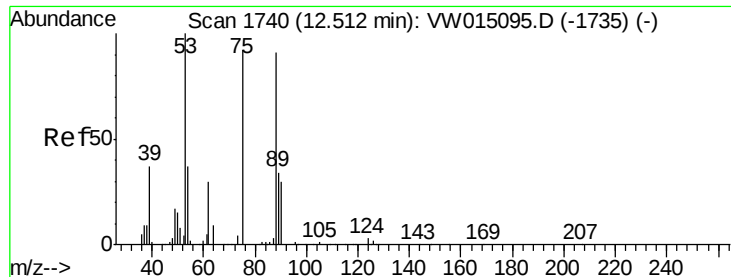
120 46.3 23.3 69.8



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: 19.03 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

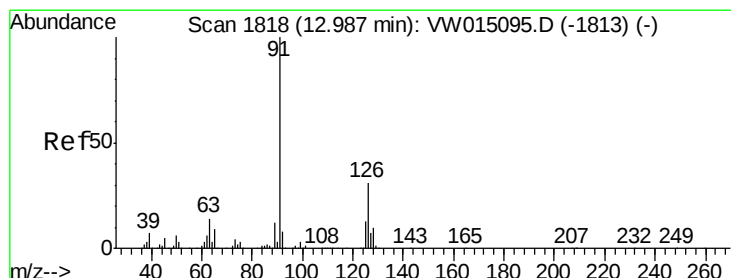
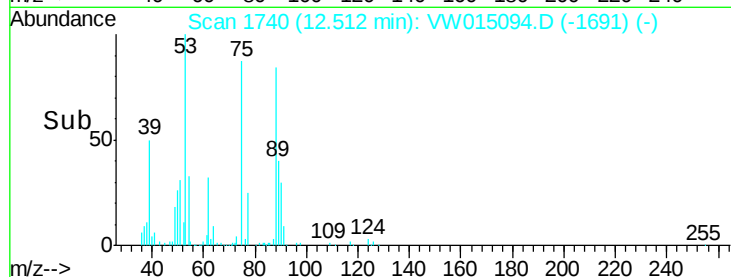
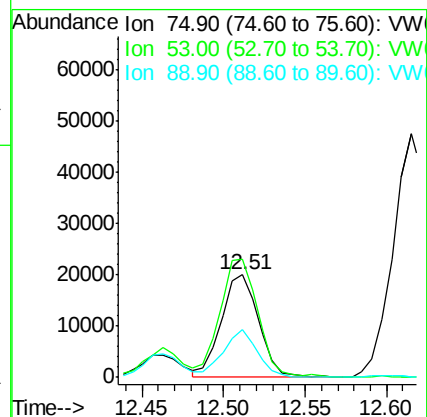
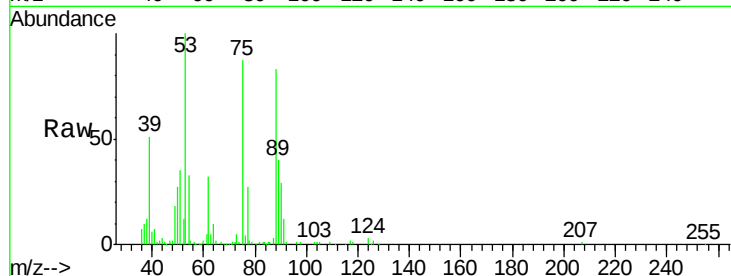
Tgt Ion: 75 Resp: 31754

Ion Ratio Lower Upper

75 100

53 115.3 88.4 132.6

89 43.7 33.1 49.7



#82

4-Chlorotoluene

Concen: 20.63 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VW015094.D

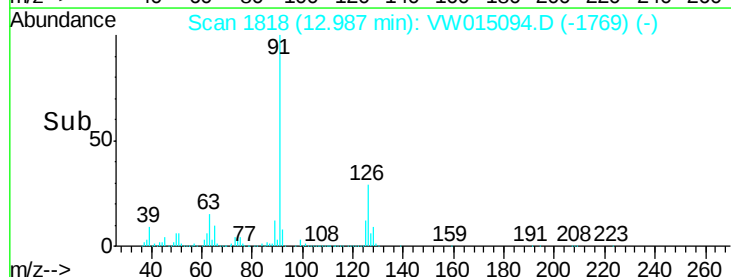
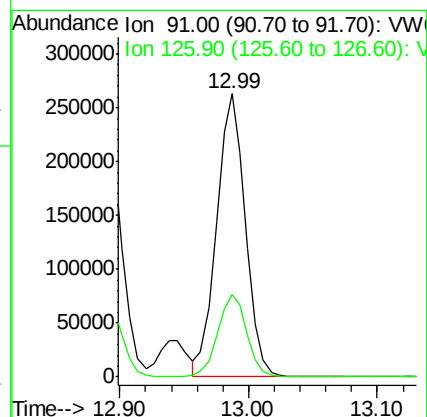
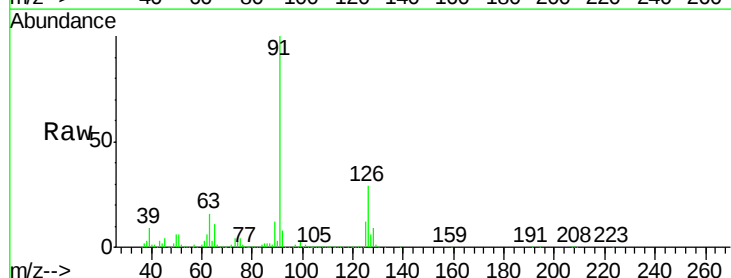
Acq: 09 Mar 2020 11:28

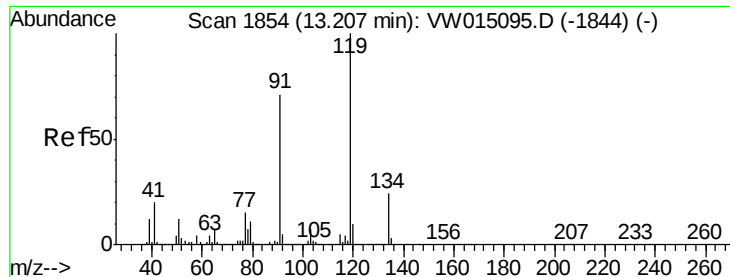
Tgt Ion: 91 Resp: 408954

Ion Ratio Lower Upper

91 100

126 29.6 14.8 44.4

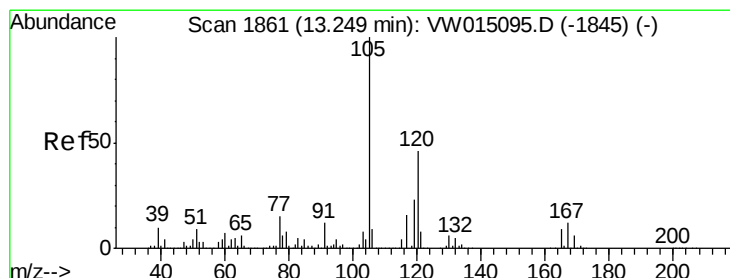
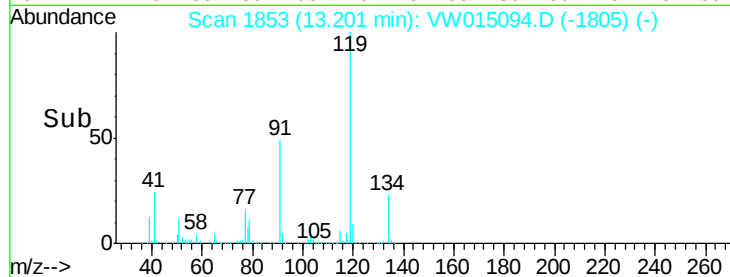
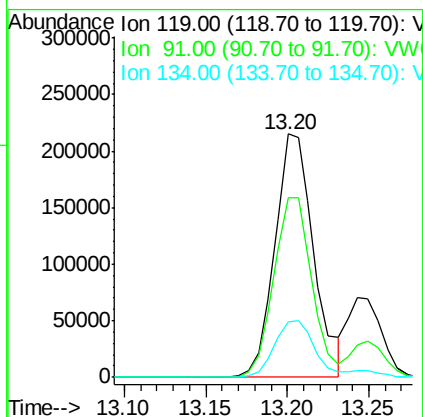
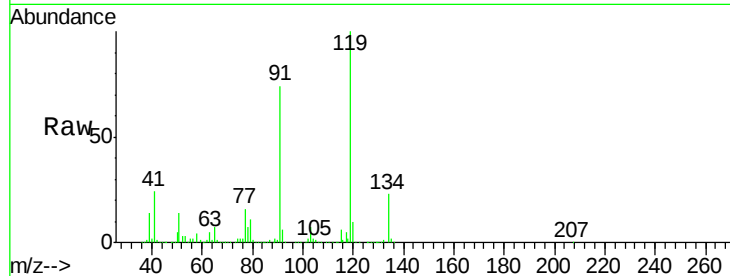




#83
 tert-Butylbenzene
 Concen: 20.05 ug/l
 RT: 13.20 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

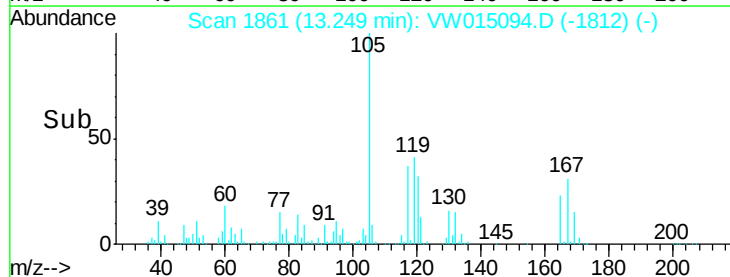
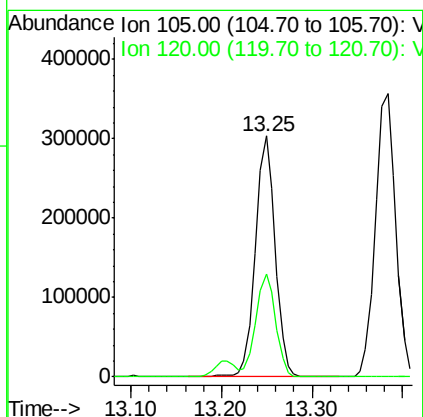
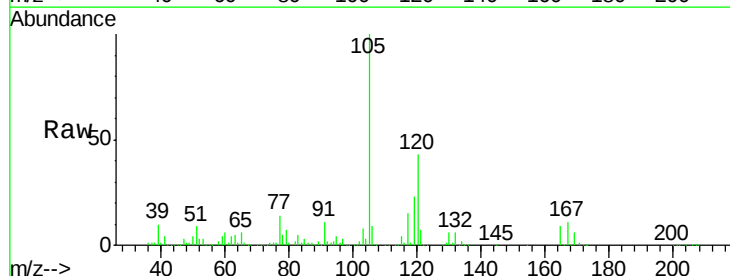
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

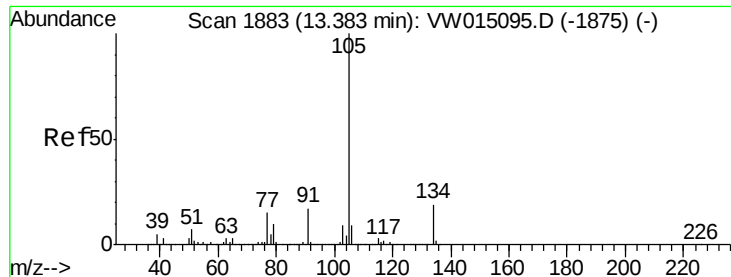
Tgt Ion:119 Resp: 355759
 Ion Ratio Lower Upper
 119 100
 91 72.7 35.7 107.1
 134 24.2 12.7 38.1



#84
 1,2,4-Trimethylbenzene
 Concen: 20.94 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion:105 Resp: 458611
 Ion Ratio Lower Upper
 105 100
 120 43.0 22.1 66.3

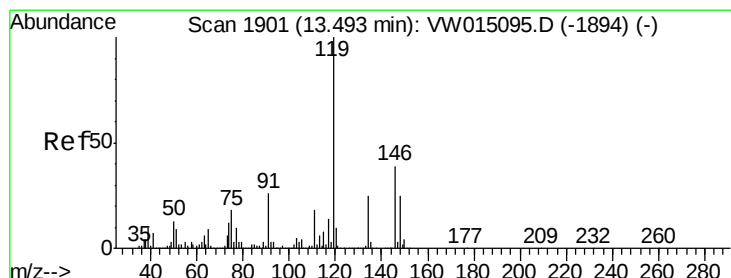
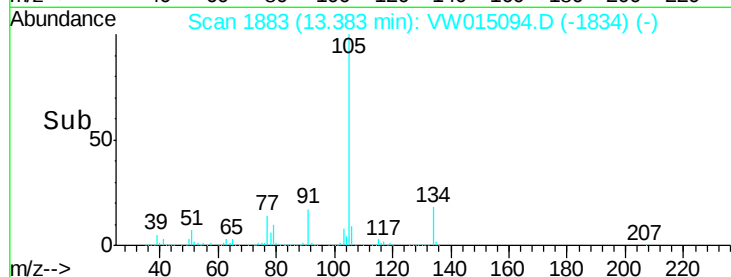
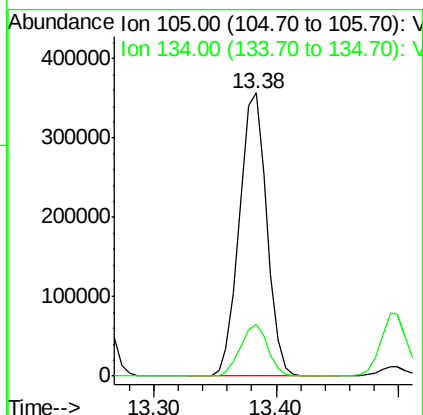
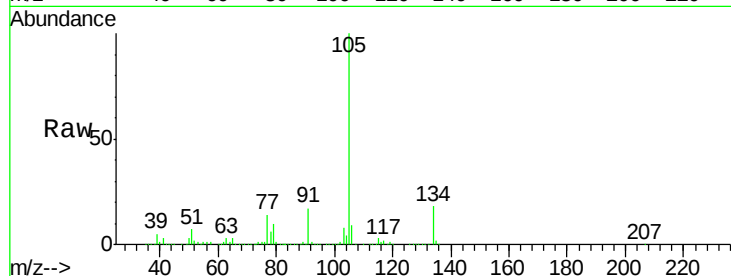




#85
 sec-Butylbenzene
 Concen: 20.54 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

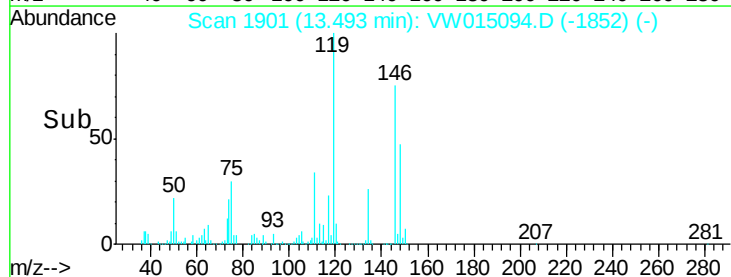
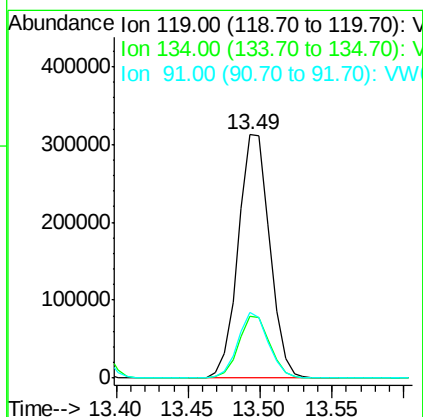
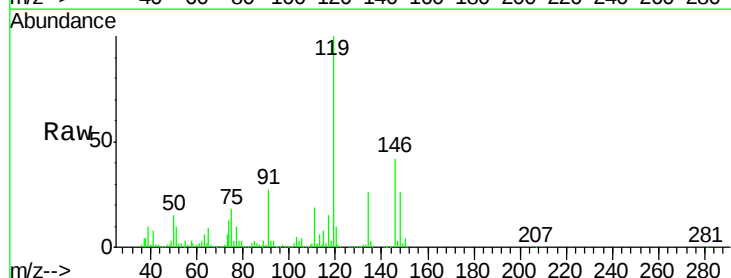
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

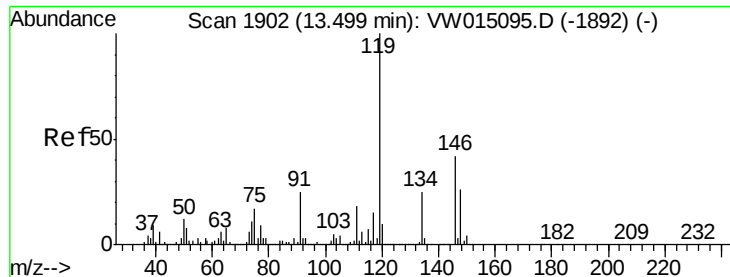
Tgt Ion:105 Resp: 551564
 Ion Ratio Lower Upper
 105 100
 134 18.3 9.0 27.1



#86
 p-Isopropyltoluene
 Concen: 20.49 ug/l
 RT: 13.49 min Scan# 1901
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion:119 Resp: 473049
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.6 37.8
 91 26.0 12.9 38.6





#87

1,3-Dichlorobenzene

Concen: 20.51 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

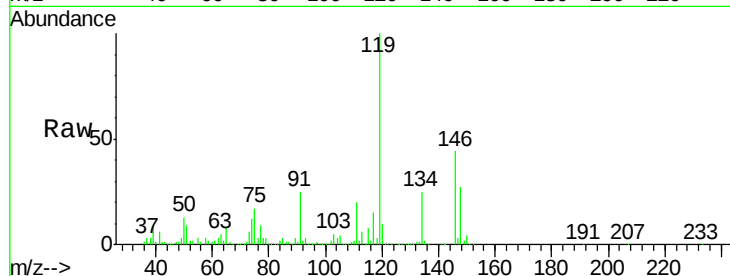
Tgt Ion:146 Resp: 218805

Ion Ratio Lower Upper

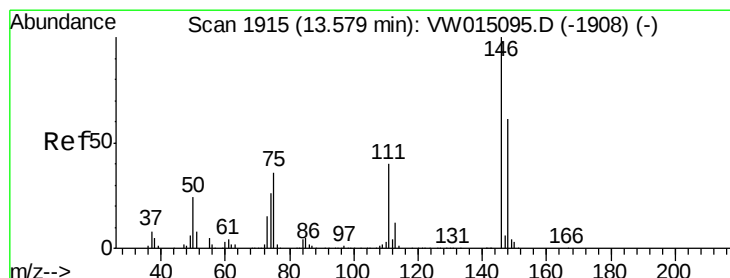
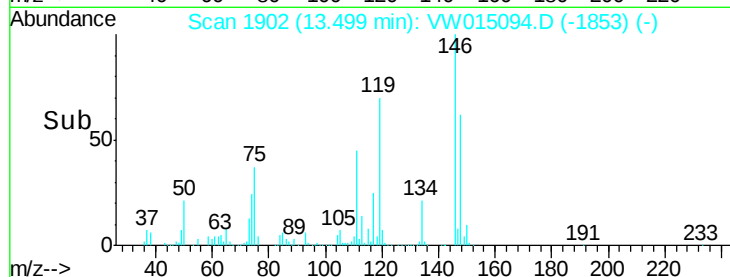
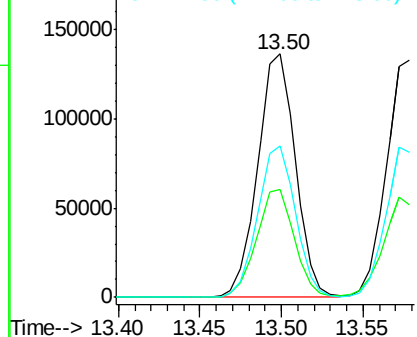
146 100

111 44.3 22.5 67.5

148 62.5 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 20.53 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

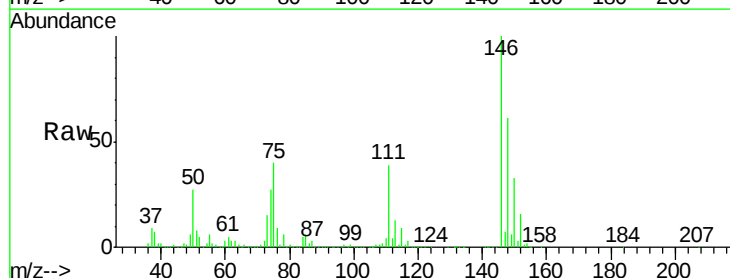
Tgt Ion:146 Resp: 215703

Ion Ratio Lower Upper

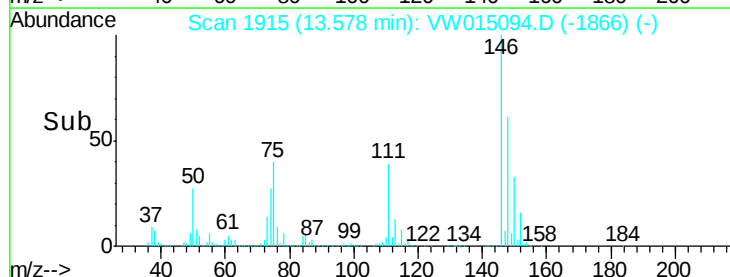
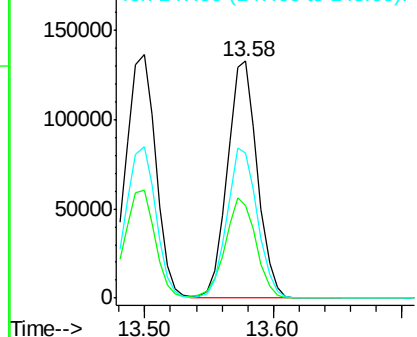
146 100

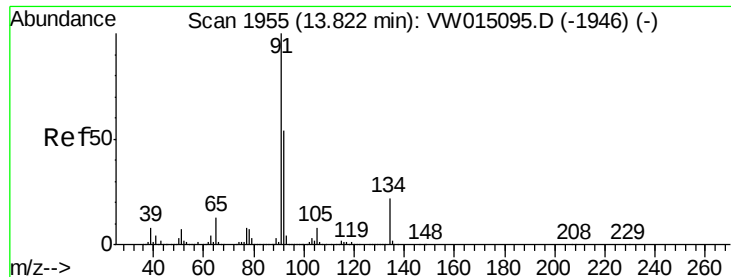
111 43.9 21.3 63.9

148 64.4 31.6 94.8



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 20.13 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

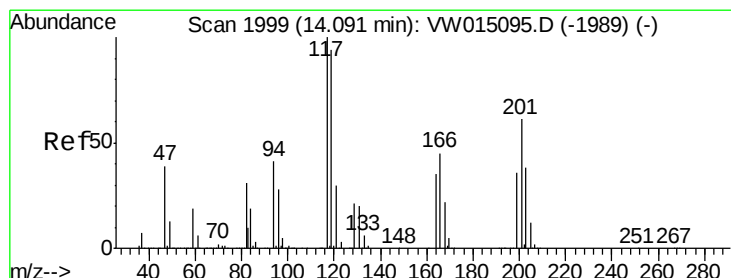
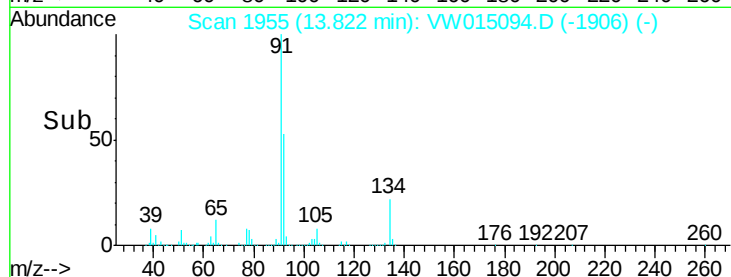
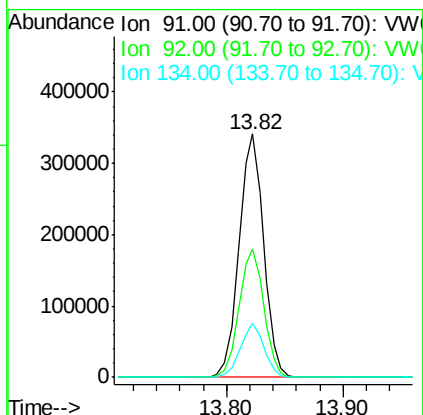
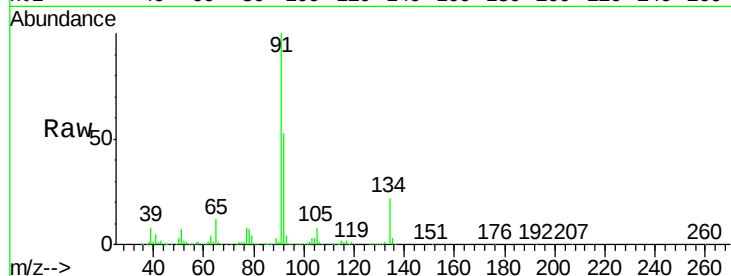
Tgt Ion: 91 Resp: 501058

Ion Ratio Lower Upper

91 100

92 53.2 26.8 80.3

134 21.6 10.8 32.4



#90

Hexachloroethane

Concen: 19.51 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VW015094.D

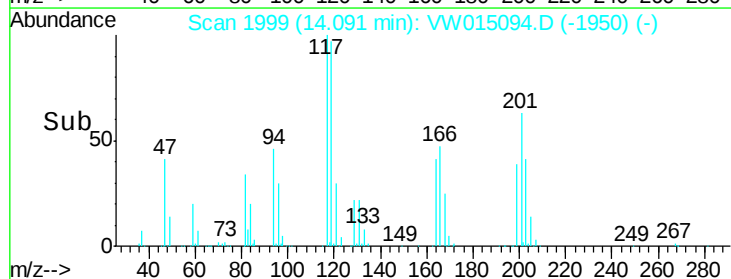
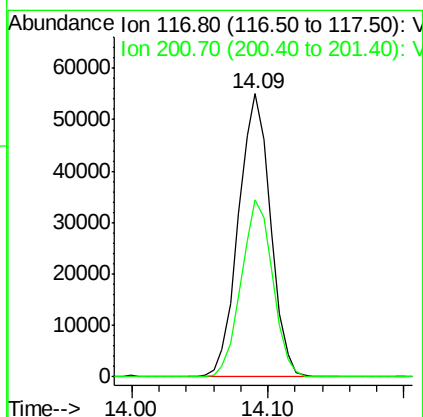
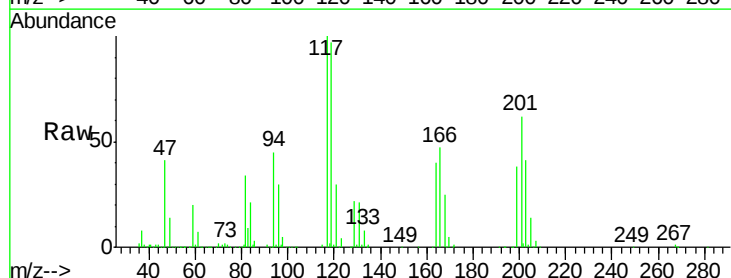
Acq: 09 Mar 2020 11:28

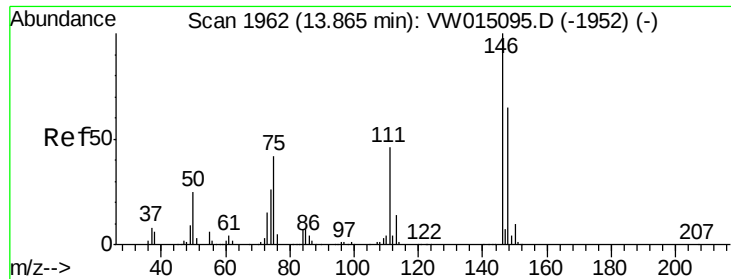
Tgt Ion: 117 Resp: 90295

Ion Ratio Lower Upper

117 100

201 61.6 30.3 90.9





#91

1,2-Dichlorobenzene

Concen: 20.28 ug/l

RT: 13.87 min Scan# 1962

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampled :

VSTDIC020

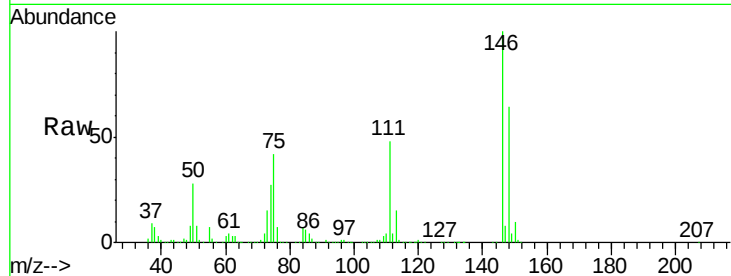
Tgt Ion:146 Resp: 189508

Ion Ratio Lower Upper

146 100

111 45.9 23.1 69.2

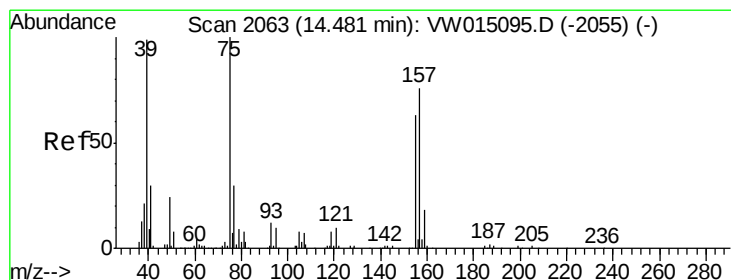
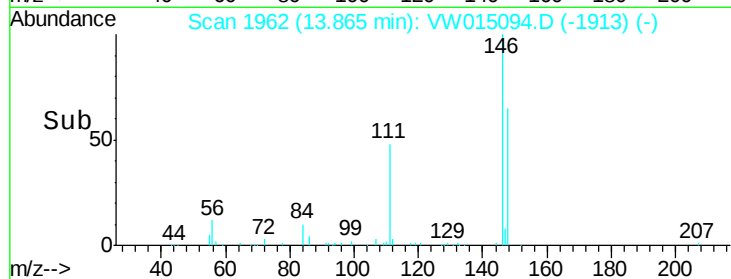
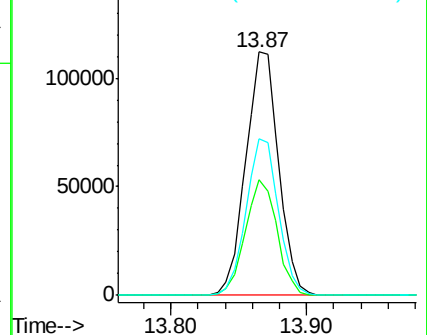
148 63.3 32.3 96.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.54 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

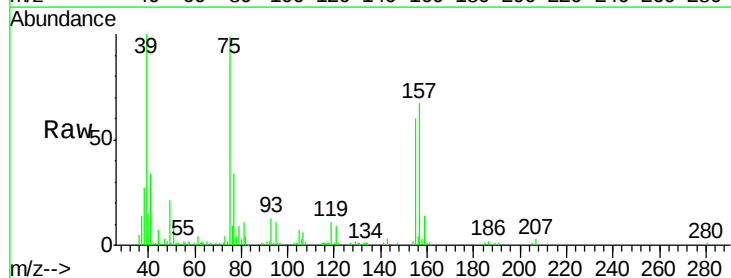
Tgt Ion: 75 Resp: 16228

Ion Ratio Lower Upper

75 100

155 61.1 32.1 96.3

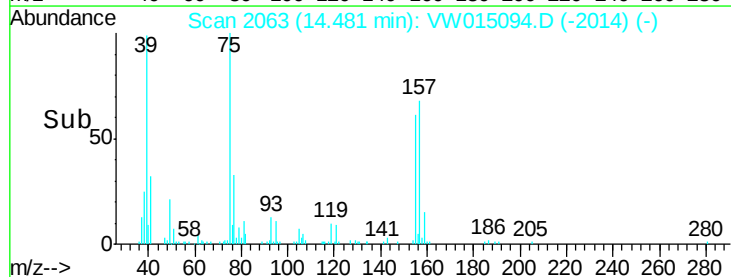
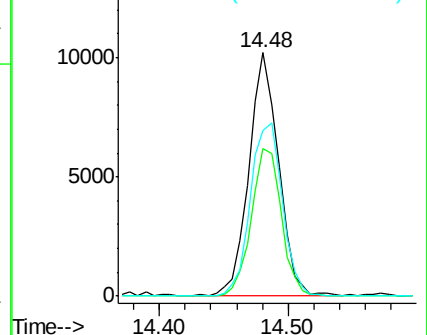
157 76.6 39.6 118.7

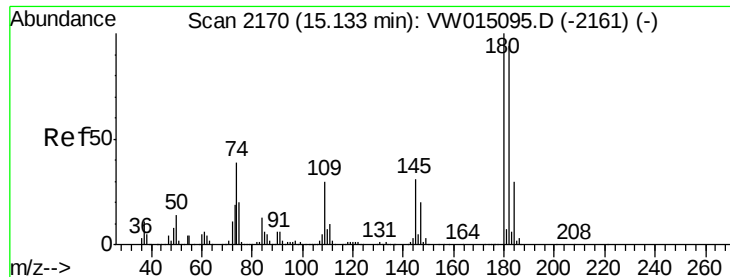


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

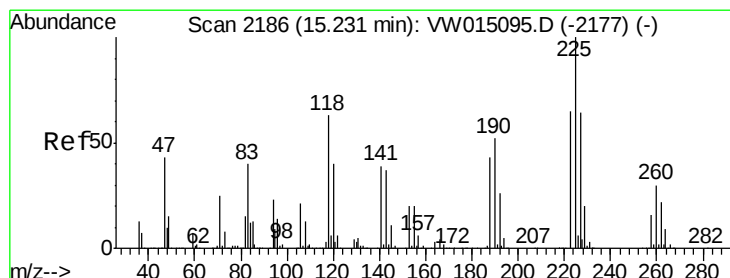
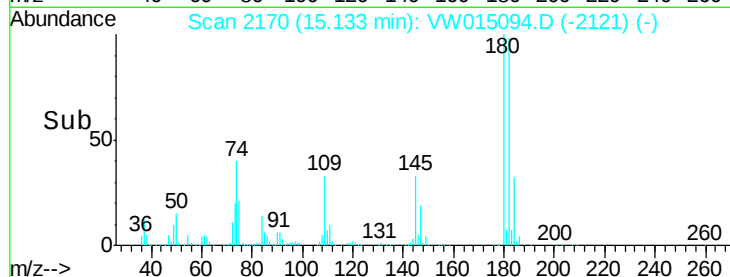
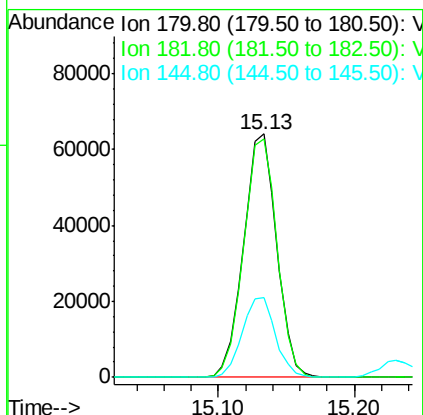
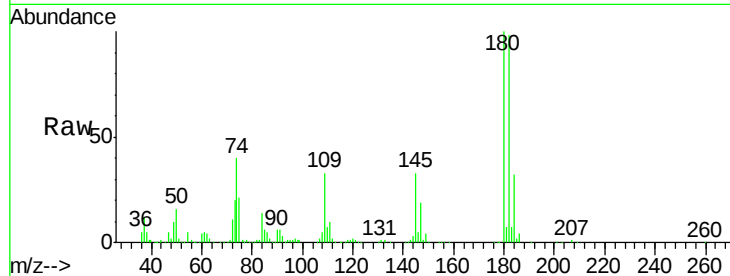




#93
 1,2,4-Trichlorobenzene
 Concen: 20.44 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

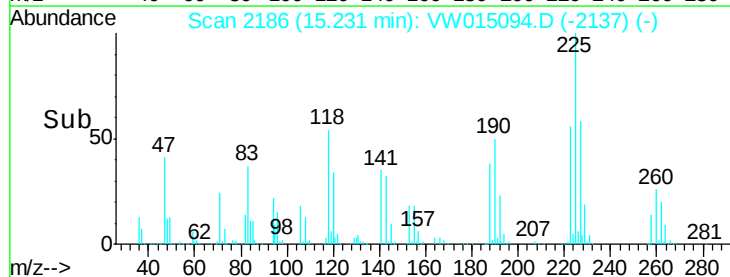
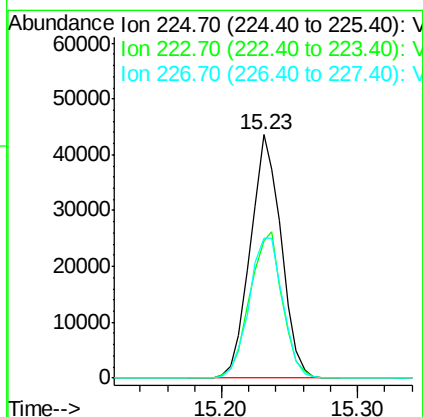
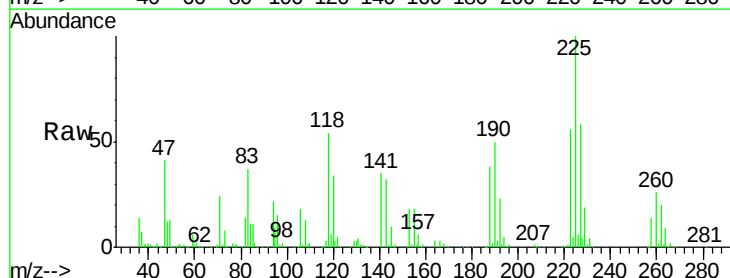
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

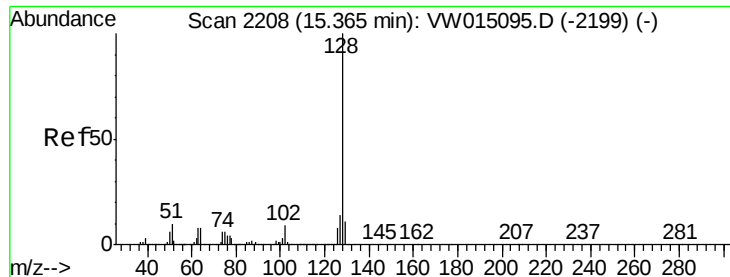
Tgt Ion:180 Resp: 109266
 Ion Ratio Lower Upper
 180 100
 182 98.9 47.6 142.9
 145 33.0 16.2 48.5



#94
 Hexachlorobutadiene
 Concen: 20.69 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. -0.00 min
 Lab File: VW015094.D
 Acq: 09 Mar 2020 11:28

Tgt Ion:225 Resp: 69445
 Ion Ratio Lower Upper
 225 100
 223 62.9 32.5 97.4
 227 63.1 33.0 99.0





#95

Naphthalene

Concen: 18.65 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

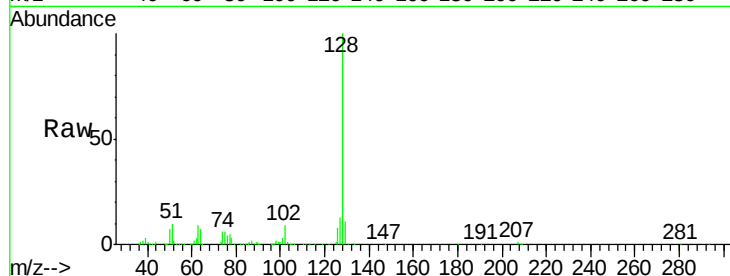
Tgt Ion:128 Resp: 186221

Ion Ratio Lower Upper

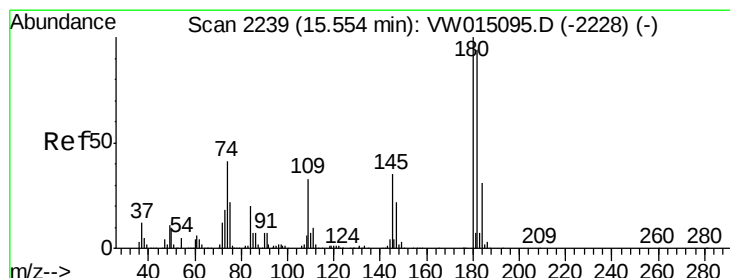
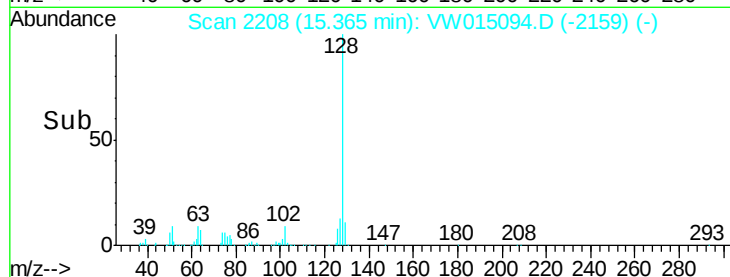
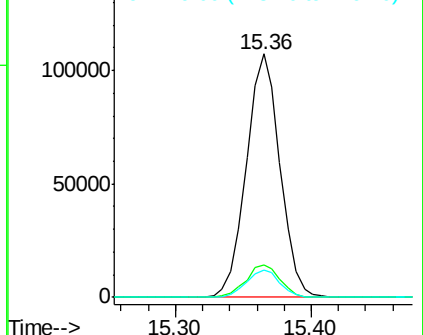
128 100

127 13.6 10.7 16.1

129 11.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.88 ug/l

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW015094.D

Acq: 09 Mar 2020 11:28

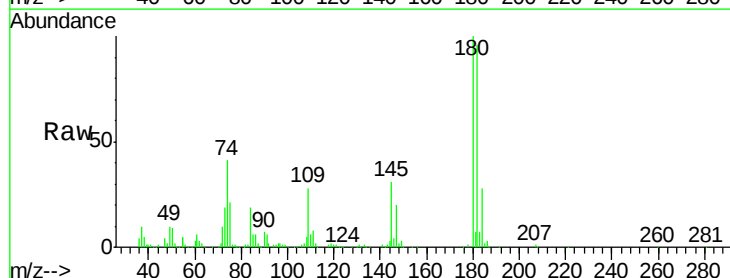
Tgt Ion:180 Resp: 99011

Ion Ratio Lower Upper

180 100

182 94.3 47.9 143.7

145 33.4 17.5 52.6



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

