

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062419\
 Data File : VW010942.D
 Acq On : 24 Jun 2019 20:49
 Operator : SY/VA
 Sample : K3456-08
 Misc : 3.46G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 YANX8

Quant Time: Jun 25 02:50:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM062419S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jun 25 02:43:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1101	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	3170	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	2463	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.60	65	111	7.78	ug/L	0.25
Spiked Amount	25.000	Range	30 - 150	Recovery	=	31.12%
7) Chloroethane-d5	2.87	69	199	18.09	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.36%
10) 1,1-Dichloroethene-d2	0.00	63	0	0.00	ug/L	
Spiked Amount	25.000	Range	45 - 110	Recovery	=	0.00%#
20) 2-Butanone-d5	7.09	46	10263	1531.37	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	3062.74%#
24) Chloroform-d	7.65	84	1088	36.64	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	146.56%
26) 1,2-Dichloroethane-d4	8.31	65	6460	350.98	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	1403.92%#
29) Benzene-d6	8.28	84	1344	7.06	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	28.24%
33) 1,2-Dichloropropane-d6	9.27	67	2401	38.18	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	152.72%#
37) Toluene-d8	10.32	98	1567	9.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	36.52%
38) trans-1,3-Dichloropropene-	10.58	79	1836	65.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	263.88%#
39) 2-Hexanone-d5	10.93	63	1583	112.01	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	224.02%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	13744	265.16	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	1060.64%#
61) 1,2-Dichlorobenzene-d4	13.86	152	3424	36.83	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	147.32%#

Target Compounds

					Ovalue
3) Chloromethane	2.21	50	96	5.834	ug/L # 38
5) Vinyl chloride	2.36	62	46	2.338	ug/L # 1
6) Bromomethane	2.78	94	91	9.371	ug/L 50
8) Chloroethane	2.86	64	102	9.789	ug/L # 1
12) 1,1-Dichloroethene	3.83	96	50	3.244	ug/L # 1
13) Acetone	4.12	43	6396	996.587	ug/L 99
14) Carbon disulfide	4.37	76	69	1.512	ug/L # 75
15) Methyl Acetate	4.68	43	1079	97.125	ug/L # 88
16) Methylene chloride	4.91	84	1033	63.351	ug/L 89
17) Methyl tert-butyl Ether	5.70	73	61	2.528	ug/L # 1
19) 1,1-Dichloroethane	6.40	63	39	1.232	ug/L # 51
21) 2-Butanone	7.13	43	4260	504.720	ug/L # 64
36) Methylcyclohexane	9.27	83	593	6.116	ug/L # 18
40) 1,2-Dichloropropane	9.29	63	129	2.250	ug/L # 88
42) cis-1,3-Dichloropropene	10.03	75	114	1.293	ug/L # 44
43) 4-Methyl-2-pentanone	10.21	43	1851	34.789	ug/L # 90
44) Toluene	10.39	91	200	0.918	ug/L # 62

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Quant Title : VOC Analysis
QLast Update : Tue Jun 25 02:43:13 2019
Response via : Initial Calibration

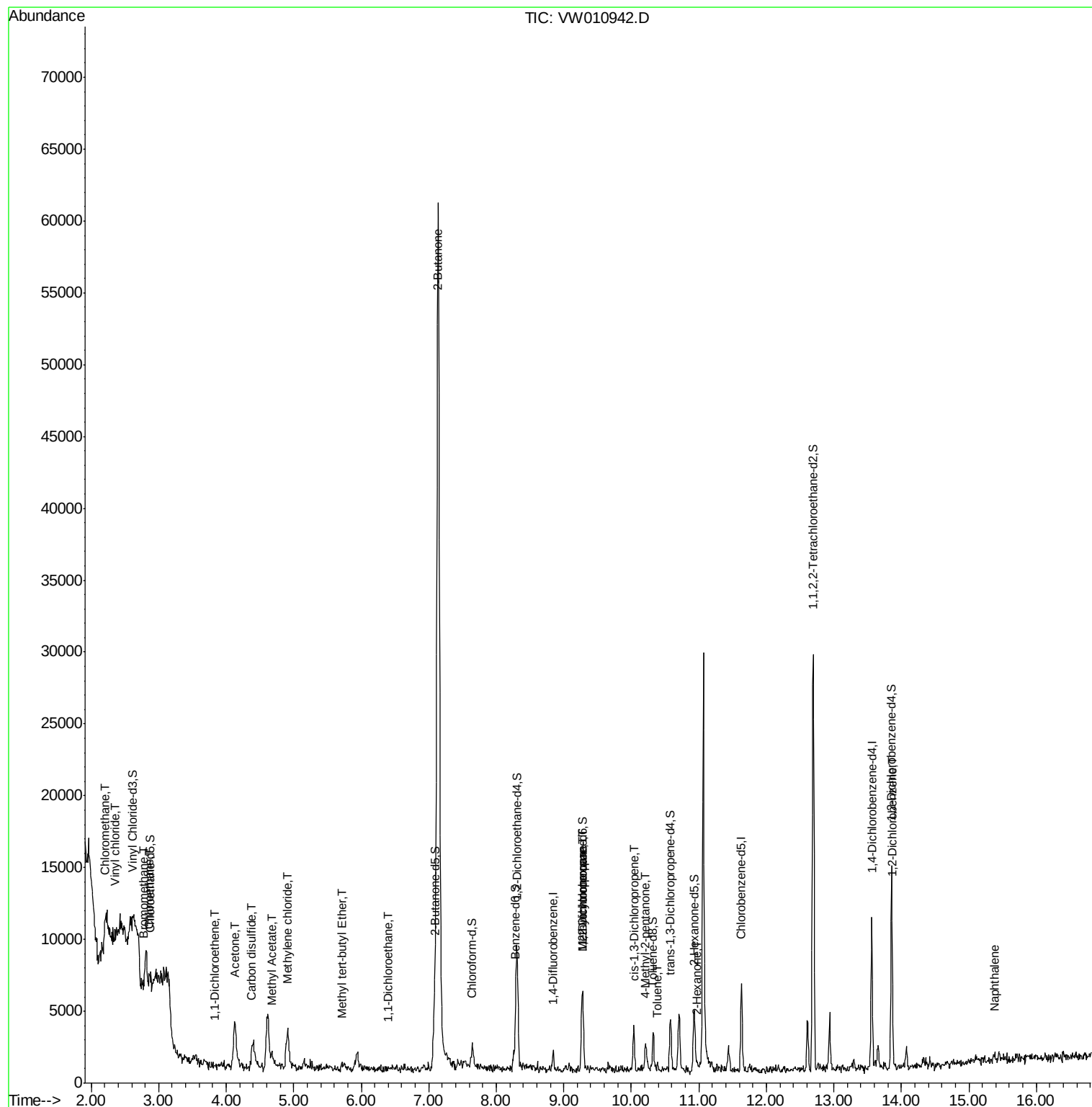
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone	10.97	43	295	7.793	uq/L #	42
65) 1,2-Dichlorobenzene	13.87	146	97	0.654	uq/L #	24
69) Naphthalene	15.38	128	134	0.607	uq/L #	68

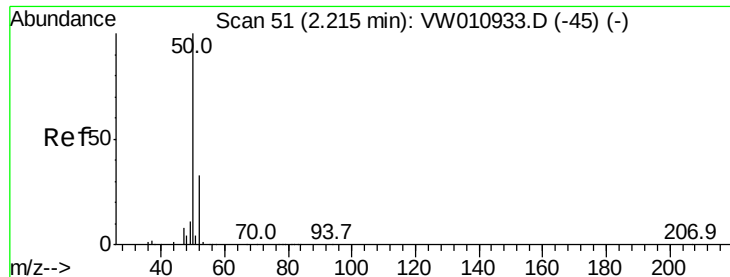
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW062419\
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#3

Chloromethane

Concen: 5.834 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

Instrument :

MSVOA_W

ClientSampleId :

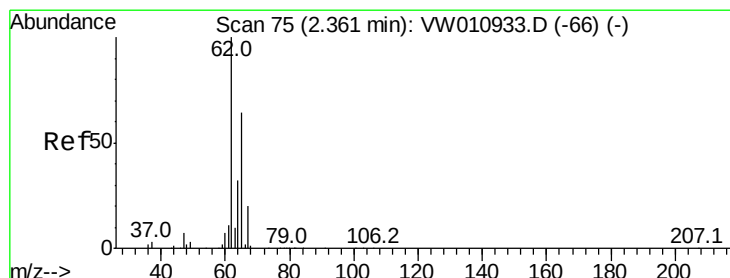
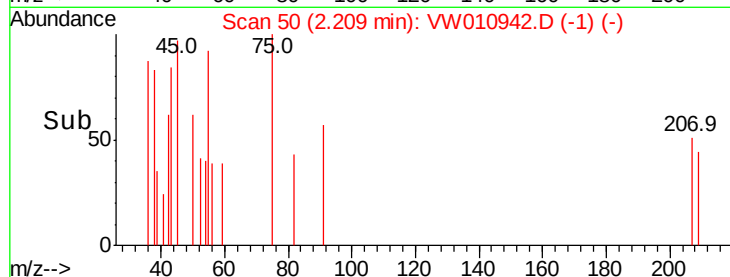
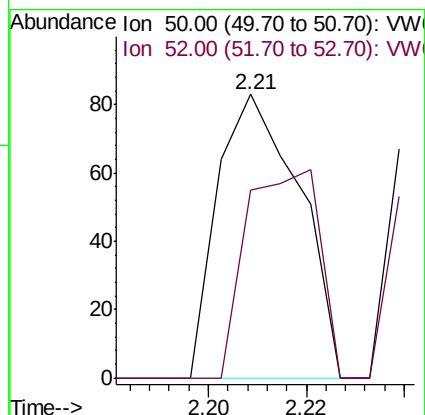
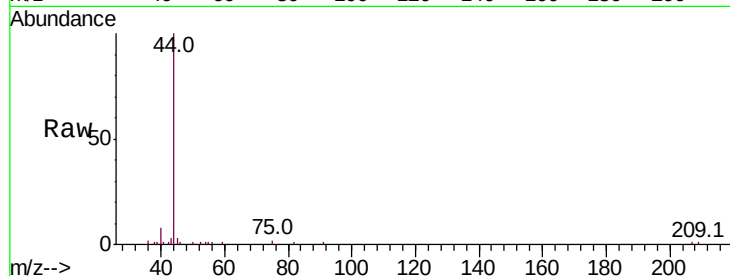
YANX8

Tot Ion: 50 Resp: 96

Ion Ratio Lower Upper

50 100

52 66.3 22.3 41.5#



#5

Vinyl chloride

Concen: 2.338 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW010942.D

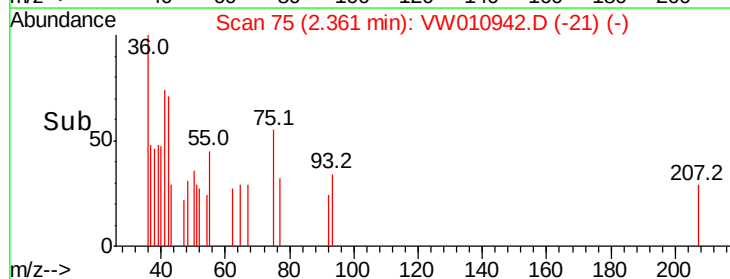
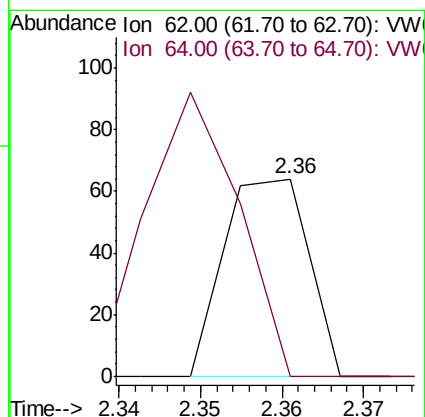
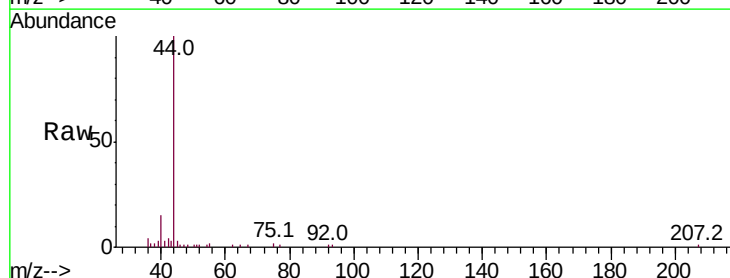
Acq: 24 Jun 2019 20:49

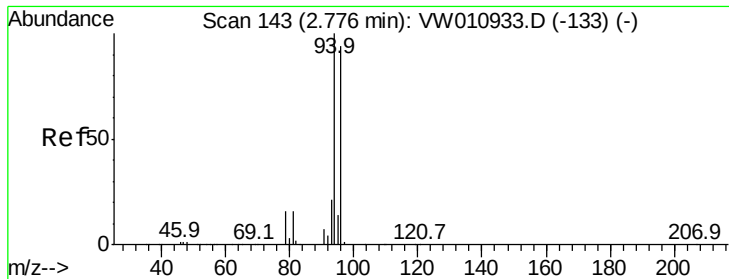
Tgt Ion: 62 Resp: 46

Ion Ratio Lower Upper

62 100

64 107.8 22.9 42.5#





#6

Bromomethane

Concen: 9.371 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

Instrument :

MSVOA_W

ClientSampled :

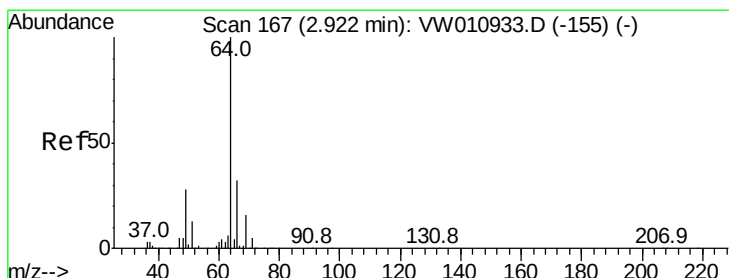
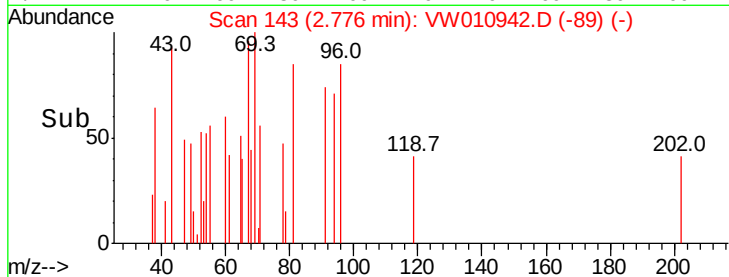
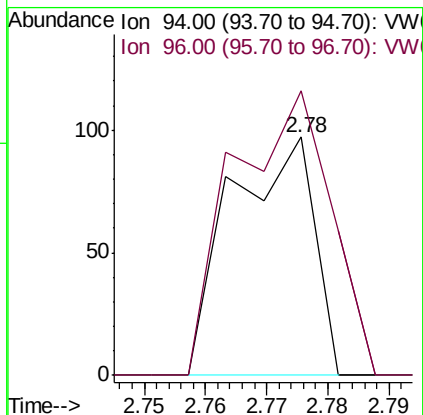
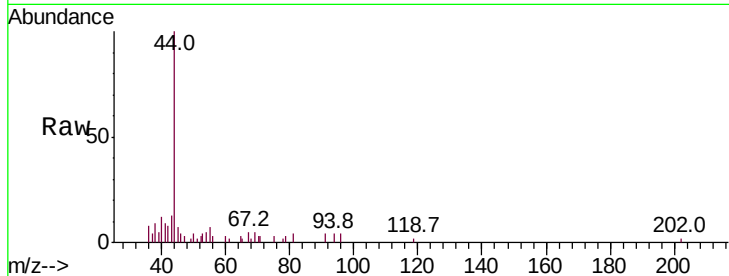
YANX8

Tot Ion: 94 Resp: 91

Ion Ratio Lower Upper

94 100

96 140.7 9.2 175.8



#8

Chloroethane

Concen: 9.789 ug/L

RT: 2.86 min Scan# 157

Delta R.T. -0.06 min

Lab File: VW010942.D

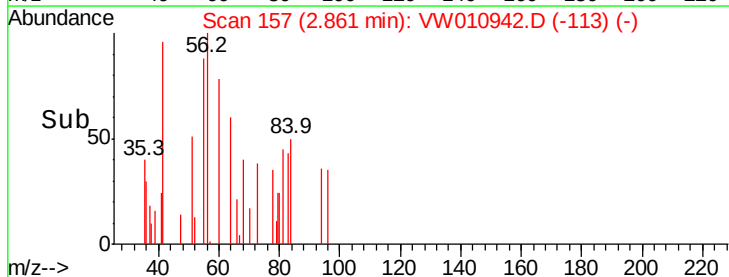
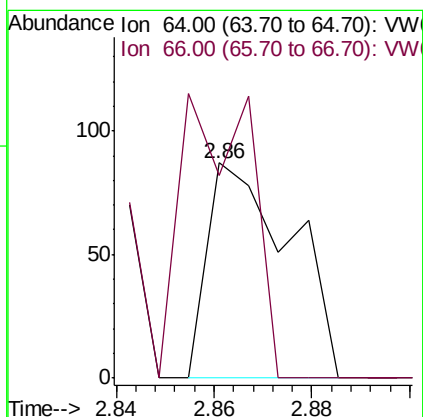
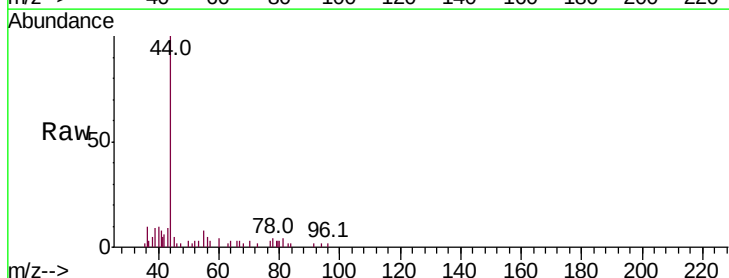
Acq: 24 Jun 2019 20:49

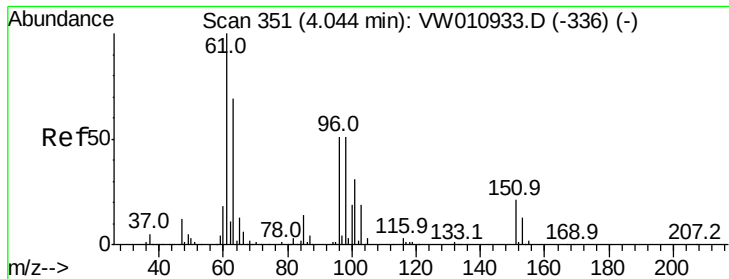
Tgt Ion: 64 Resp: 102

Ion Ratio Lower Upper

64 100

66 94.3 21.8 40.4#





#12

1,1-Dichloroethene

Concen: 3.244 ug/L

RT: 3.83 min Scan# 316

Delta R.T. -0.21 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

Instrument :

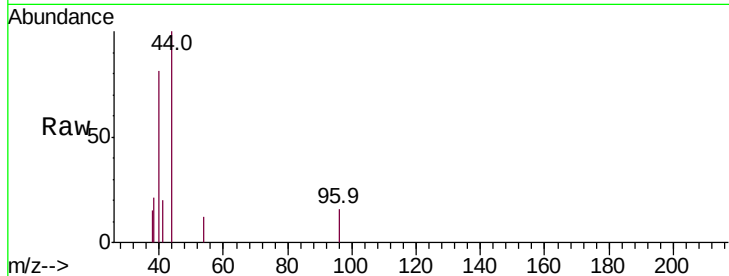
MSVOA_W

ClientSampleId :

YANX8

Tot Ion: 96 Resp: 50

Ion	Ratio	Lower	Upper
96	100		
61	0.0	144.5	268.3#
63	0.0	102.3	189.9#

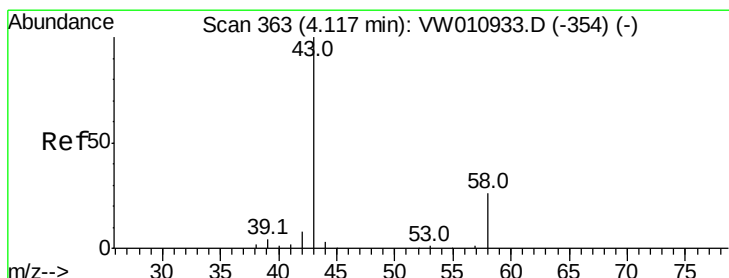
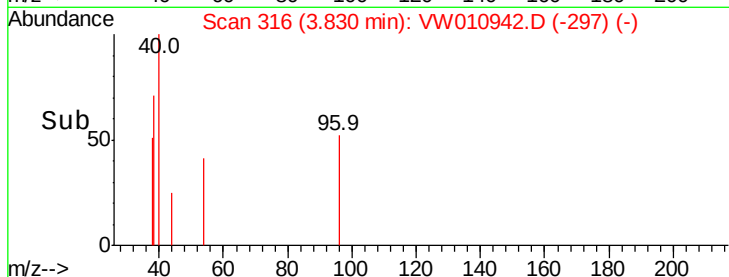
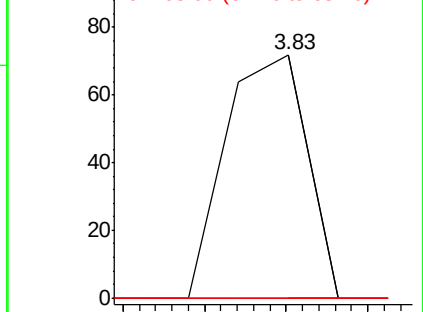


Abundance

Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW



#13

Acetone

Concen: 996.587 ug/L

RT: 4.12 min Scan# 364

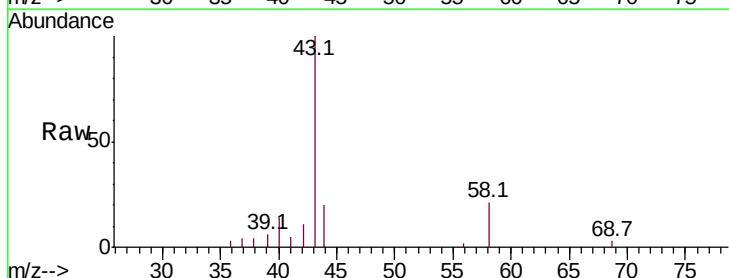
Delta R.T. 0.01 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

Tgt Ion: 43 Resp: 6396

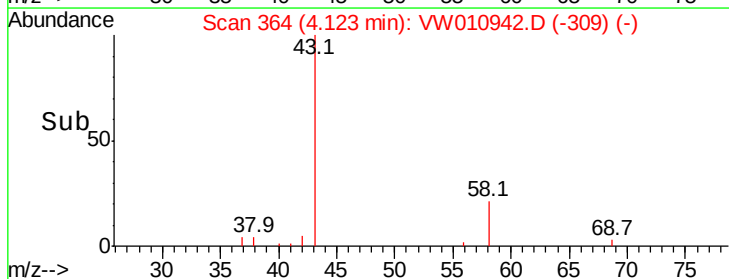
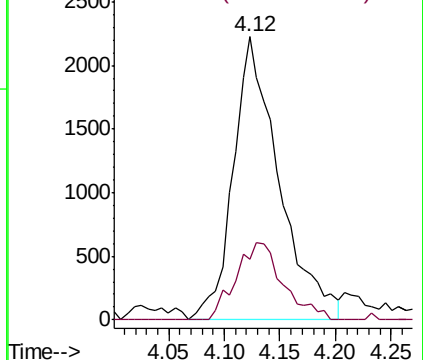
Ion	Ratio	Lower	Upper
43	100		
58	26.3	0.0	53.2

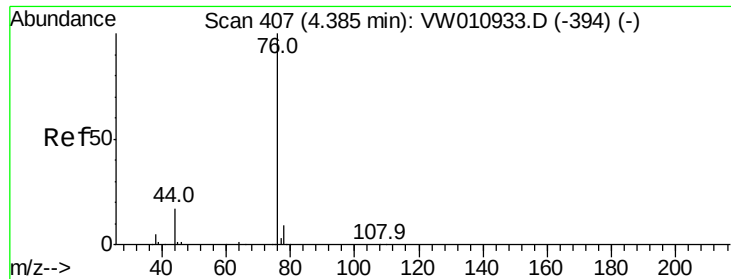


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 1.512 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

Instrument :

MSVOA_W

ClientSampled :

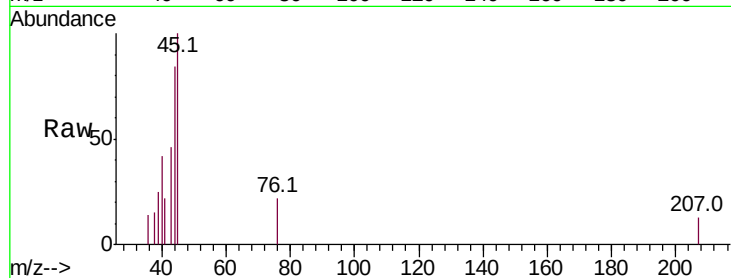
YANX8

Tot Ion: 76 Resp: 69

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

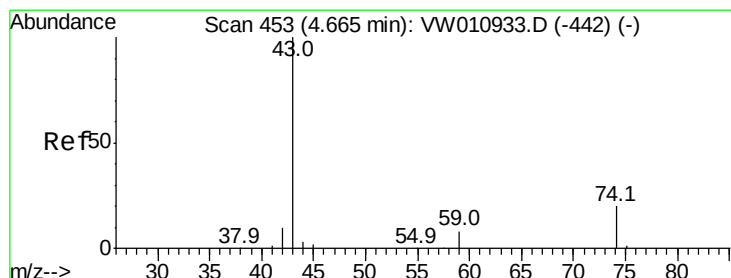
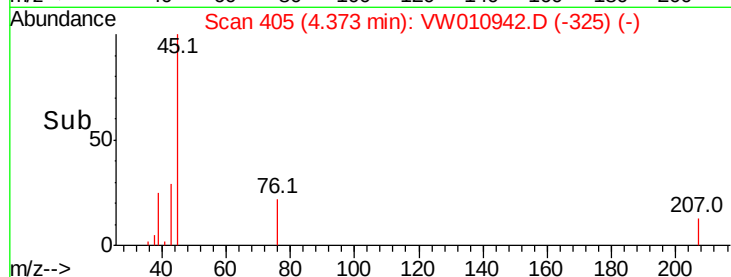
4.37

100

50

0

Time--> 4.36 4.37 4.38 4.39



#15

Methyl Acetate

Concen: 97.125 ug/L

RT: 4.68 min Scan# 456

Delta R.T. 0.02 min

Lab File: VW010942.D

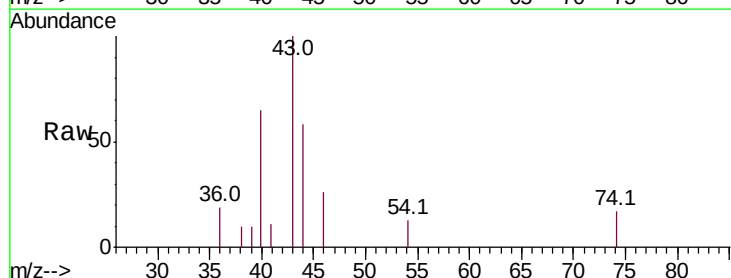
Acq: 24 Jun 2019 20:49

Tgt Ion: 43 Resp: 1079

Ion Ratio Lower Upper

43 100

74 13.6 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

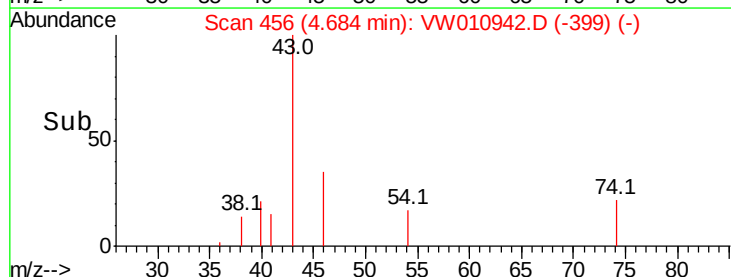
600

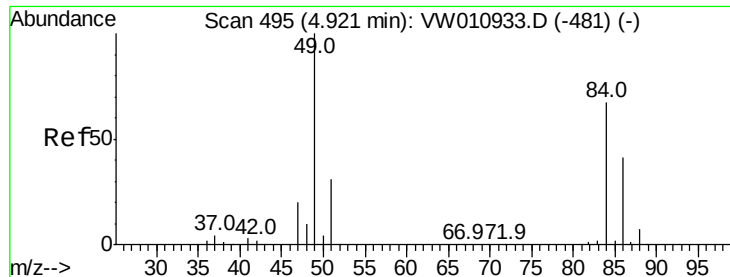
400

200

0

Time--> 4.60 4.65 4.70

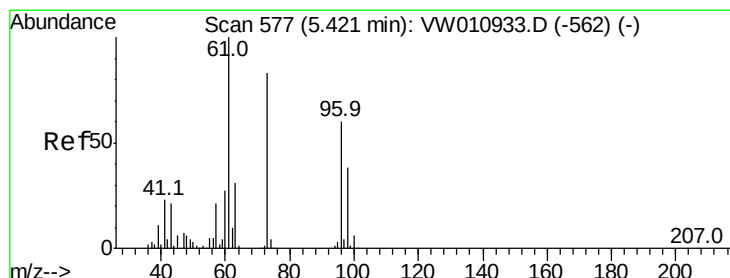
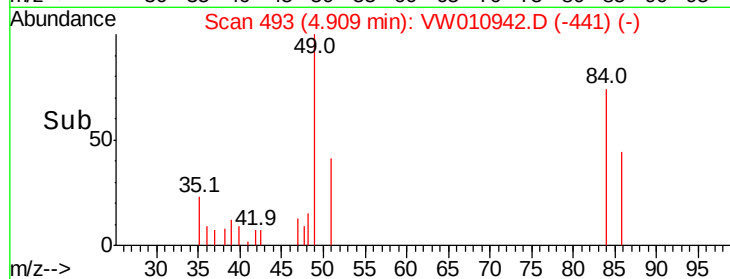
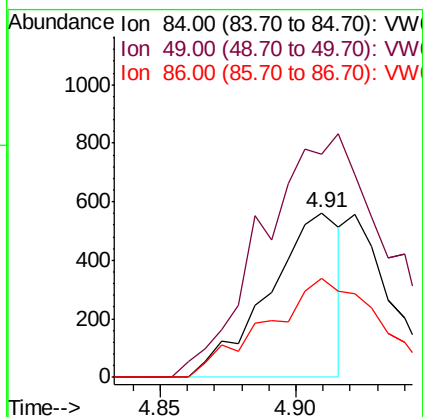
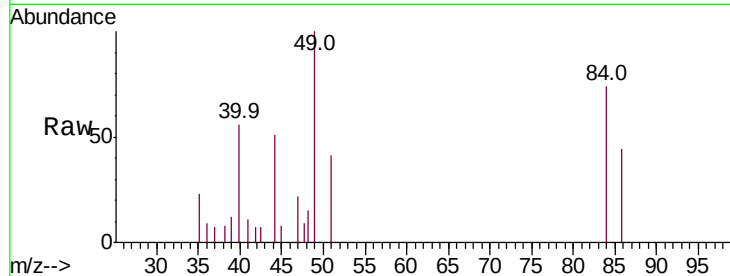




#16
Methylene chloride
Concen: 63.351 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW010942.D
Acq: 24 Jun 2019 20:49

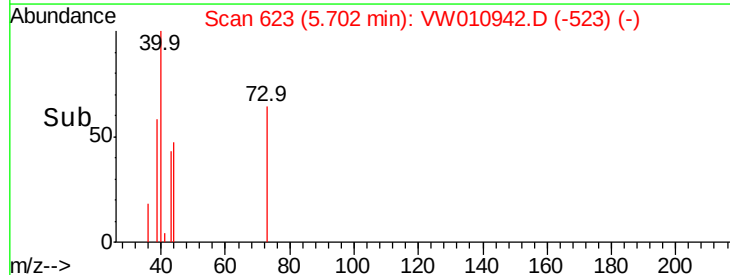
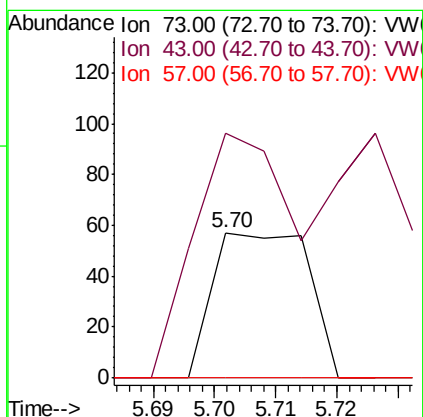
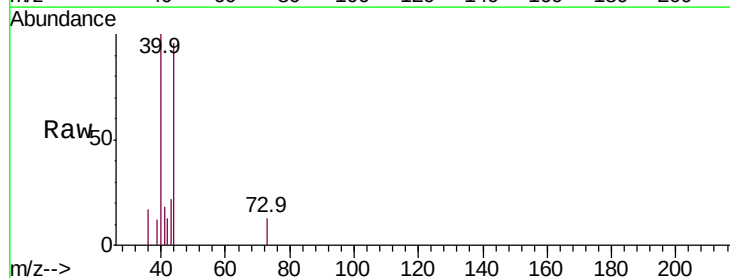
Instrument :
MSVOA_W
ClientSampled :
YANXB

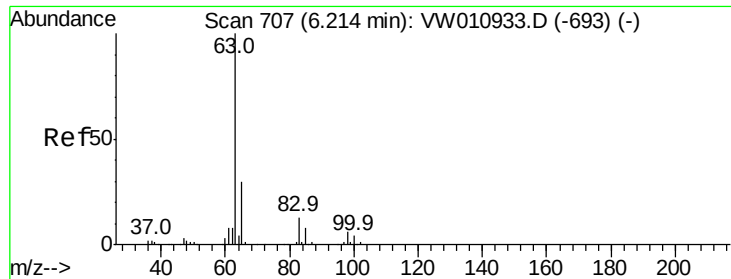
Tot Ion: 84 Resp: 1033
Ion Ratio Lower Upper
84 100
49 135.5 107.0 198.8
86 60.0 44.4 82.5



#17
Methyl tert-butyl Ether
Concen: 2.528 ug/L
RT: 5.70 min Scan# 623
Delta R.T. 0.28 min
Lab File: VW010942.D
Acq: 24 Jun 2019 20:49

Tgt Ion: 73 Resp: 61
Ion Ratio Lower Upper
73 100
43 173.8 20.2 30.2#
57 0.0 19.4 29.0#

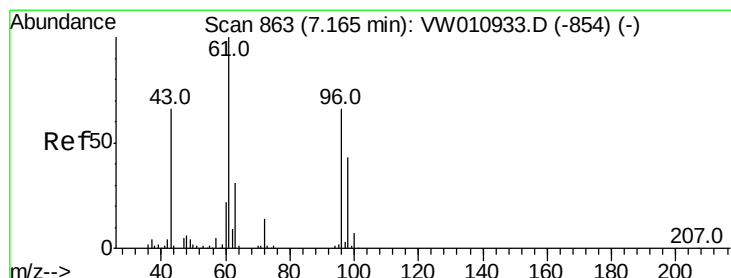
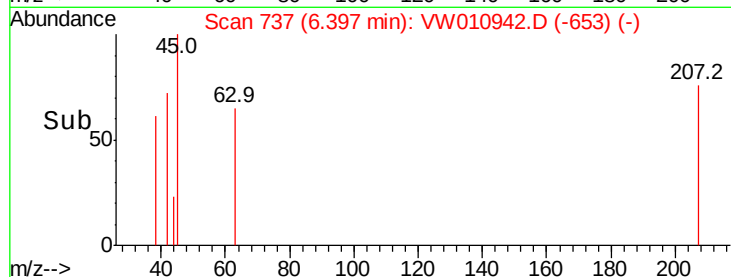
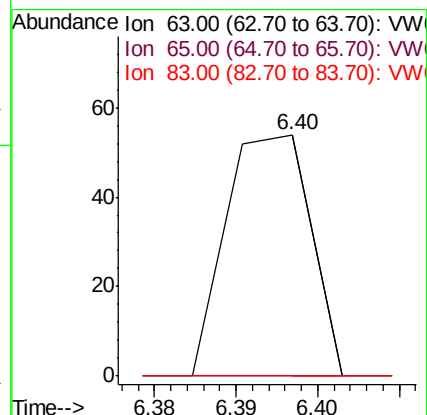
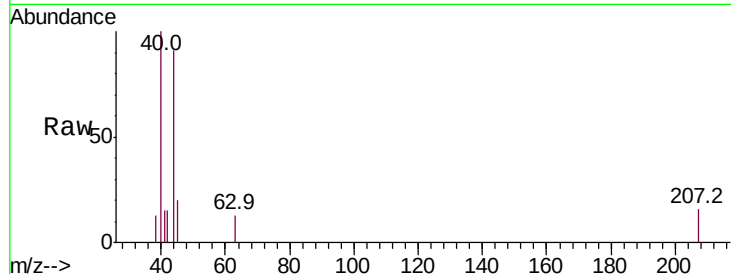




#19
 1,1-Dichloroethane
 Concen: 1.232 ug/L
 RT: 6.40 min Scan# 737
 Delta R.T. 0.18 min
 Lab File: VW010942.D
 Acq: 24 Jun 2019 20:49

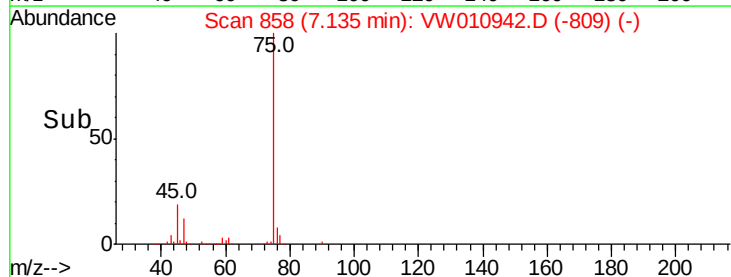
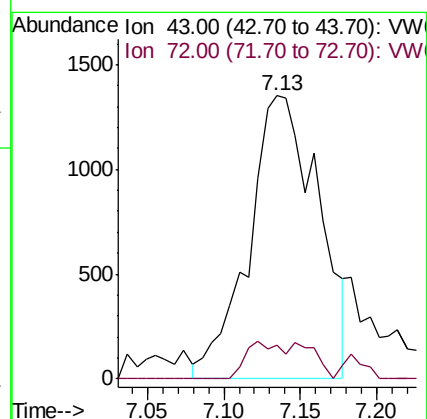
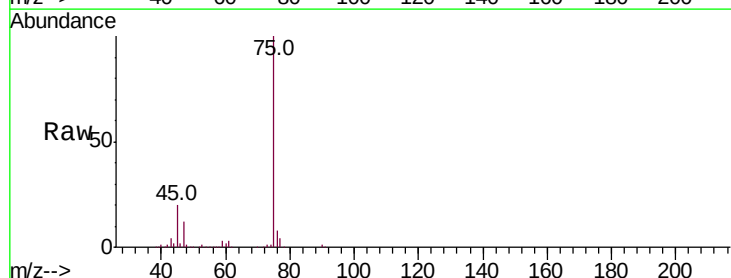
Instrument :
 MSVOA_W
 ClientSampleId :
 YANX8

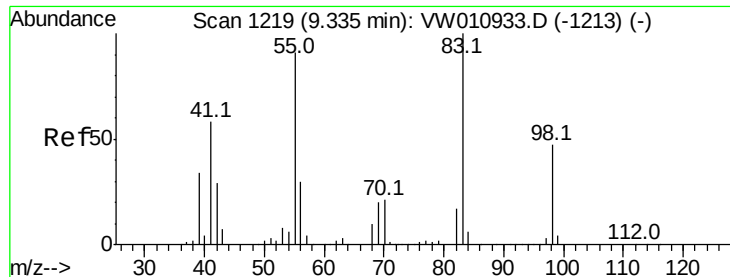
Tot Ion	Ratio	Lower	Upper
63	100		
65	0.0	21.3	39.6#
83	0.0	8.5	15.9#



#21
 2-Butanone
 Concen: 504.720 ug/L
 RT: 7.13 min Scan# 858
 Delta R.T. -0.03 min
 Lab File: VW010942.D
 Acq: 24 Jun 2019 20:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	4.6	10.9	32.6#

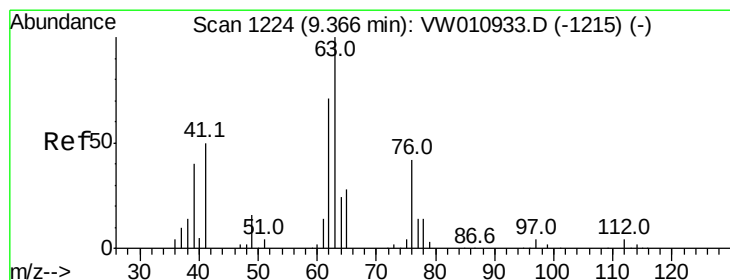
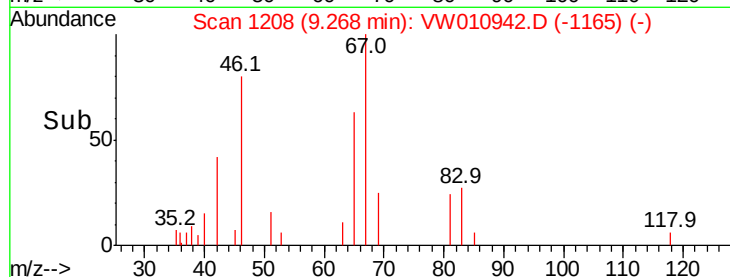
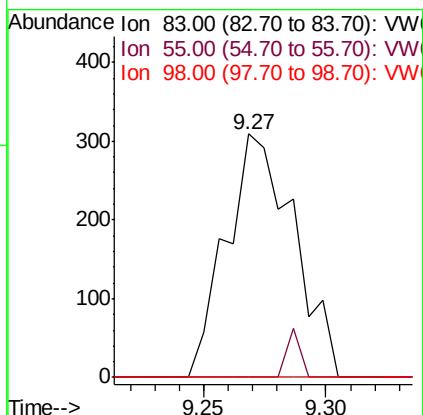
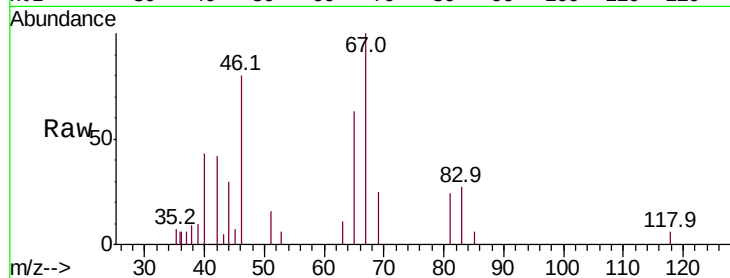




#36
Methylvlcyclohexane
Concen: 6.116 ug/L
RT: 9.27 min Scan# 1208
Delta R.T. -0.07 min
Lab File: VW010942.D
Acq: 24 Jun 2019 20:49

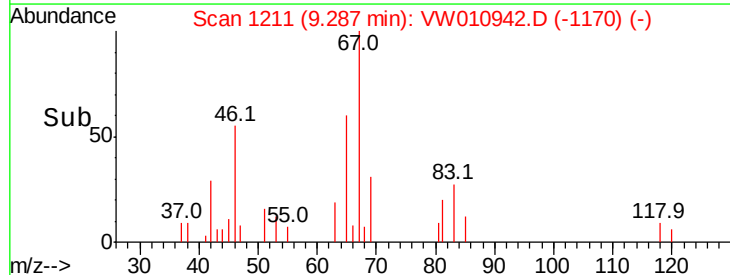
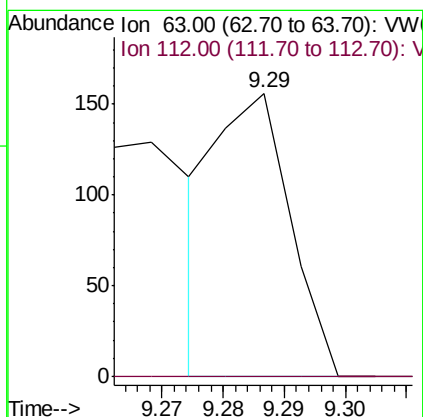
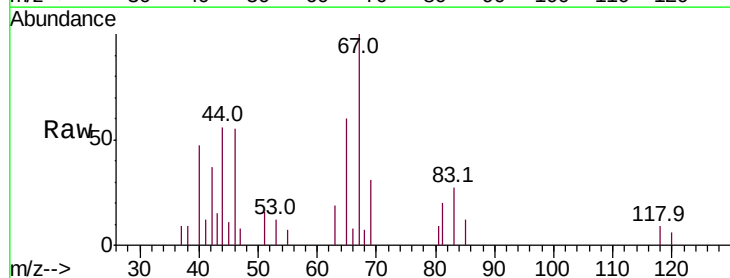
Instrument :
MSVOA_W
ClientSampleId :
YANX8

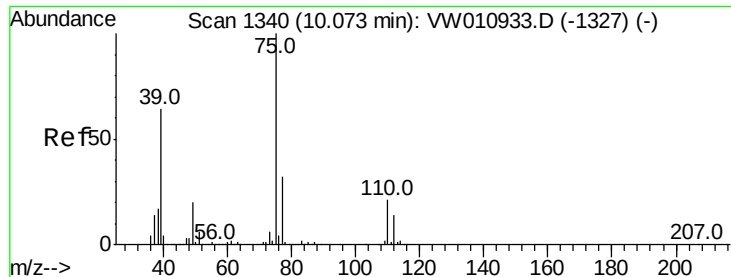
Tot Ion: 83 Resp: 593
Ion Ratio Lower Upper
83 100
55 6.6 72.2 108.2#
98 0.0 37.8 56.8#



#40
1,2-Dichloropropane
Concen: 2.250 ug/L
RT: 9.29 min Scan# 1211
Delta R.T. -0.08 min
Lab File: VW010942.D
Acq: 24 Jun 2019 20:49

Tgt Ion: 63 Resp: 129
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#





#42

cis-1,3-Dichloropropene

Concen: 1.293 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

Instrument :

MSVOA_W

ClientSampled :

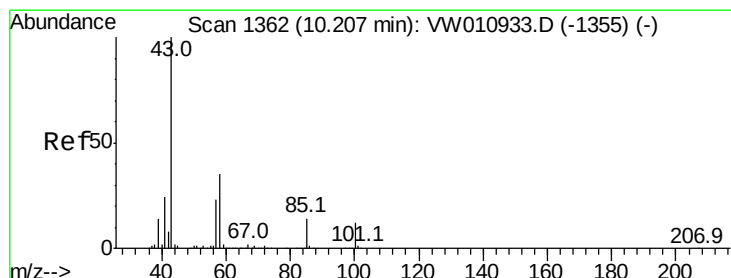
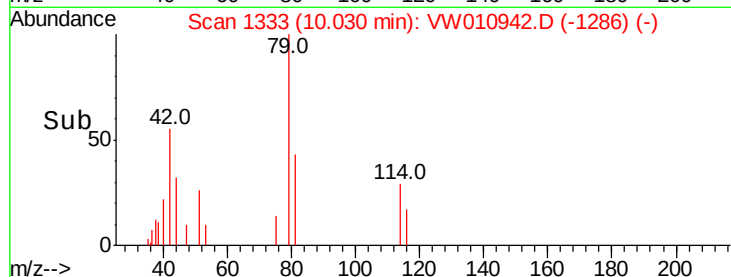
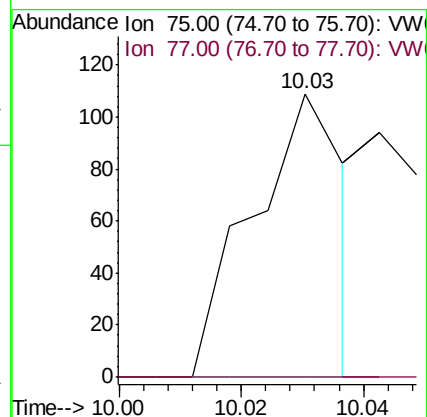
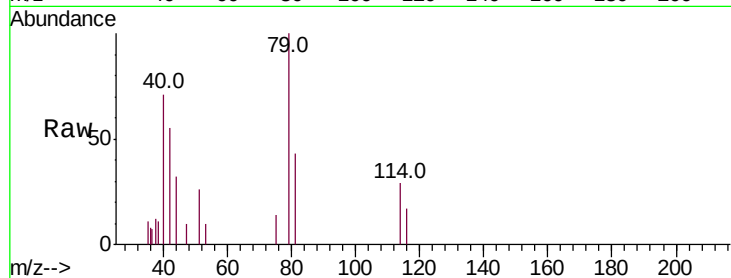
YANX8

Tot Ion: 75 Resp: 114

Ion Ratio Lower Upper

75 100

77 0.0 21.3 39.6#



#43

4-Methyl-2-pentanone

Concen: 34.789 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

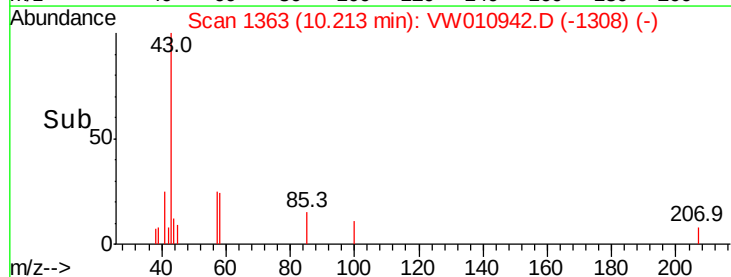
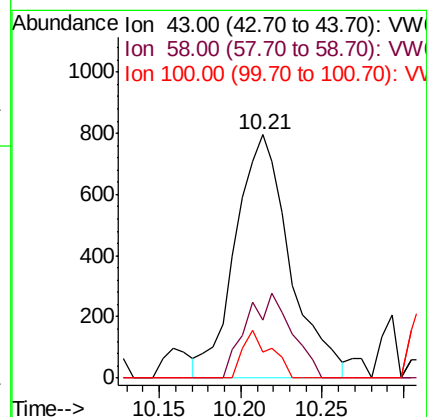
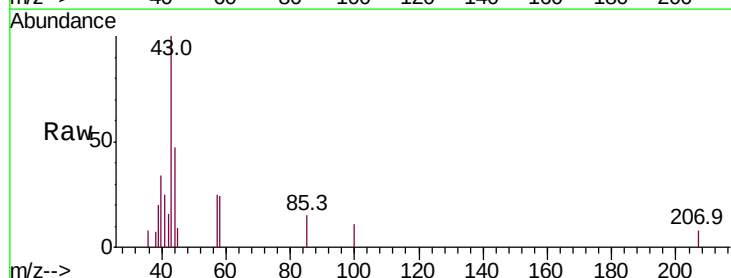
Tgt Ion: 43 Resp: 1851

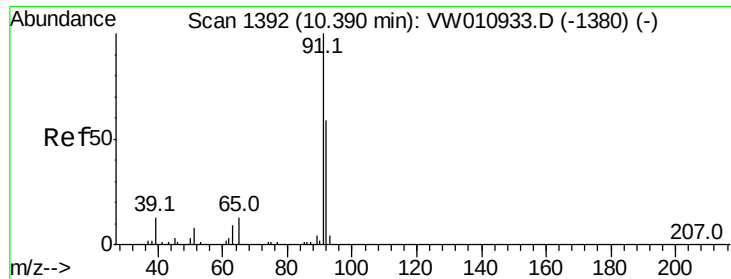
Ion Ratio Lower Upper

43 100

58 29.1 27.5 41.3

100 6.7 9.6 14.4#





#44

Toluene

Concen: 0.918 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

Instrument :

MSVOA_W

ClientSampled :

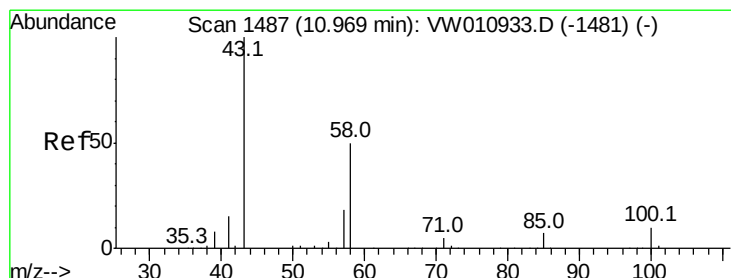
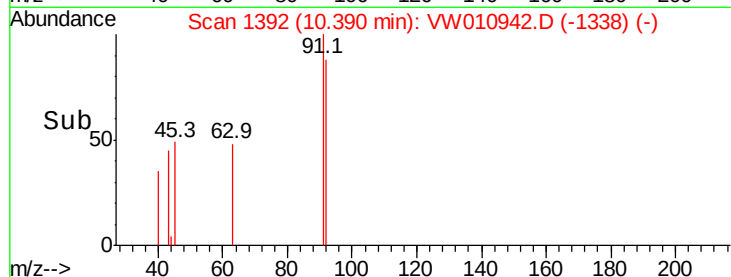
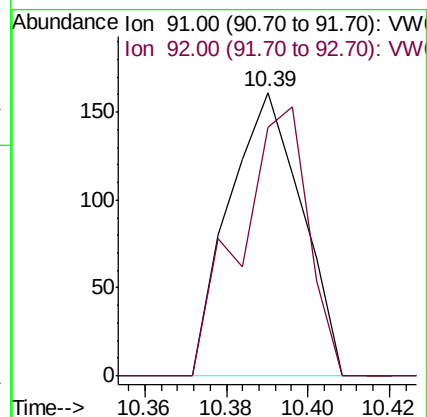
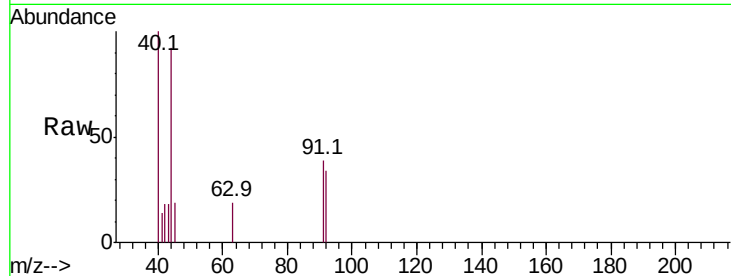
YANX8

Tot Ion: 91 Resp: 200

Ion Ratio Lower Upper

91 100

92 87.6 41.2 76.4#



#49

2-Hexanone

Concen: 7.793 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010942.D

Acq: 24 Jun 2019 20:49

Tgt Ion: 43 Resp: 295

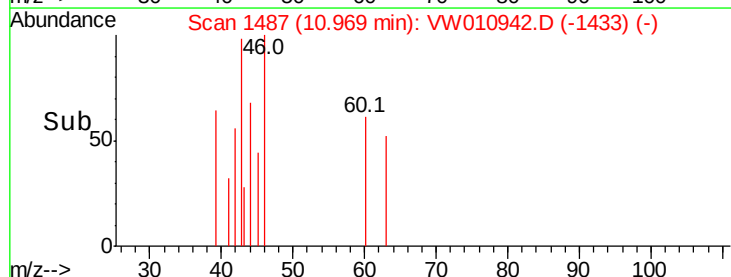
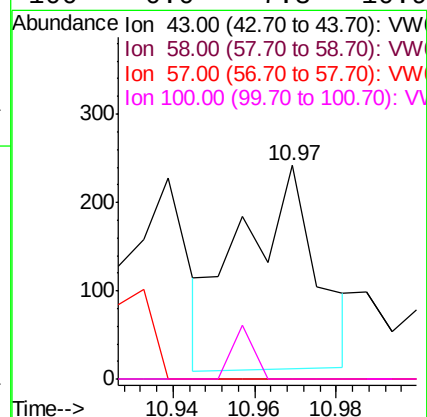
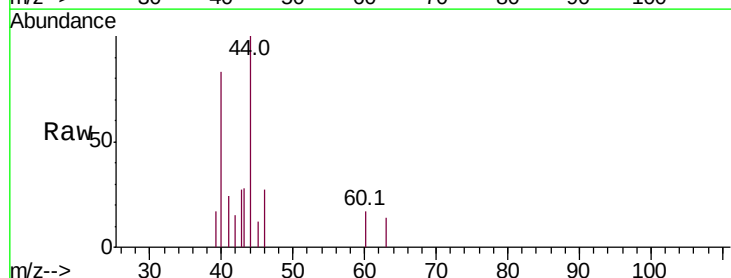
Ion Ratio Lower Upper

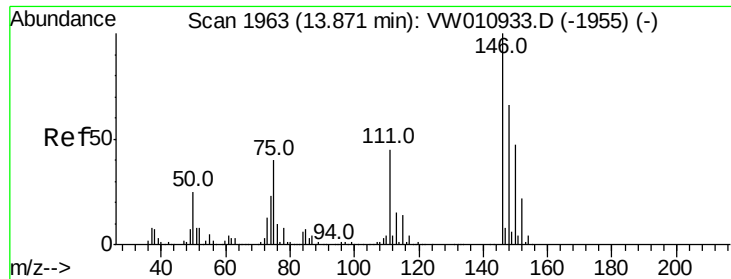
43 100

58 0.0 38.3 57.5#

57 0.0 13.8 20.8#

100 0.0 7.3 10.9#

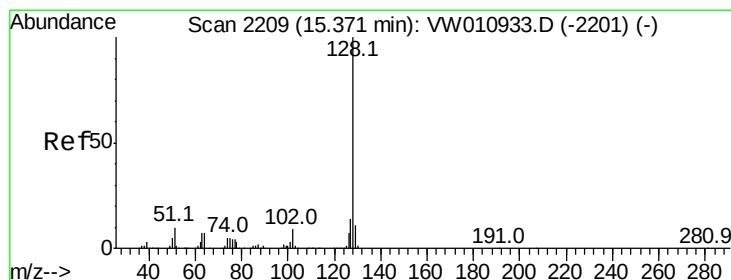
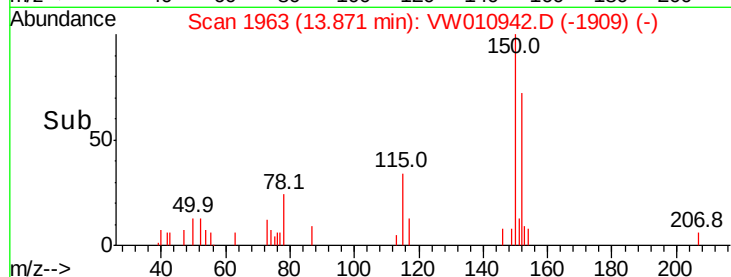
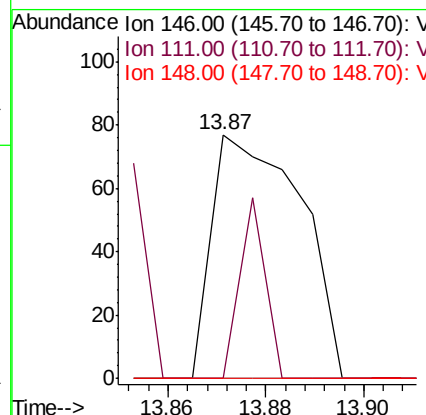
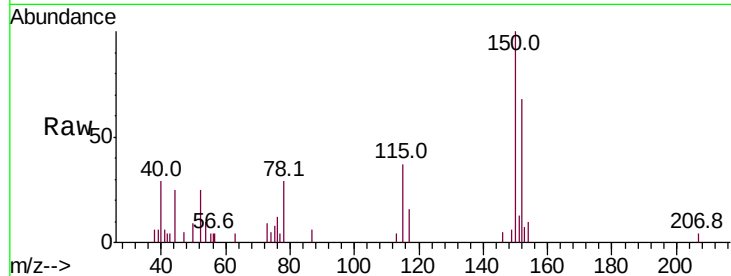




#65
 1,2-Dichlorobenzene
 Concen: 0.654 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW010942.D
 Acq: 24 Jun 2019 20:49

Instrument :
 MSVOA_W
 ClientSampled :
 YANX8

Tot Ion:146 Resp: 97
 Ion Ratio Lower Upper
 146 100
 111 0.0 34.6 51.8#
 148 0.0 50.5 75.7#



#69
 Naphthalene
 Concen: 0.607 ug/L
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.01 min
 Lab File: VW010942.D
 Acq: 24 Jun 2019 20:49

Tgt Ion:128 Resp: 134
 Ion Ratio Lower Upper
 128 100
 129 0.0 8.8 13.2#
 127 0.0 10.9 16.3#

