

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081819\
 Data File : VU033834.D
 Acq On : 16 Aug 2019 14:33
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Quant Time: Aug 17 02:17:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Aug 17 02:15:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	387783	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	383969	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	205875	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	144509	41.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.84%
7) Chloroethane-d5	1.67	69	132466	40.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.20%
11) 1,1-Dichloroethene-d2	2.26	63	251829	43.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.38%
21) 2-Butanone-d5	4.15	46	200151	109.39	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.39%
24) Chloroform-d	4.62	84	264541	47.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.22%
26) 1,2-Dichloroethane-d4	5.29	65	165181	47.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.04%
32) Benzene-d6	5.32	84	499785	46.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.44%
36) 1,2-Dichloropropane-d6	6.31	67	162975	46.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.48%
41) Toluene-d8	7.55	98	463440	46.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.24%
43) trans-1,3-Dichloropropene-	7.83	79	77046	47.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.76%
47) 2-Hexanone-d5	8.30	63	141004	109.79	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.79%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	238759	49.54	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.08%
64) 1,2-Dichlorobenzene-d4	11.84	152	192302	46.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.74%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	190309	50.055 ug/L	99
3) Chloromethane	1.32	50	192318	49.183 ug/L	100
5) Vinyl chloride	1.39	62	208644	47.903 ug/L	100
6) Bromomethane	1.62	94	178018	54.059 ug/L	100
8) Chloroethane	1.69	64	133251	44.163 ug/L	95
9) Trichlorofluoromethane	1.87	101	276280	47.831 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	139149	50.324 ug/L	99
12) 1,1-Dichloroethene	2.27	96	128273	47.862 ug/L	94
13) Acetone	2.31	43	182671	101.585 ug/L	98
14) Carbon disulfide	2.46	76	397213	47.001 ug/L	100
15) Methyl Acetate	2.60	43	148636	50.123 ug/L	99
16) Methylene chloride	2.68	84	151699	48.846 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	135856	48.628 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	404900	49.662 ug/L	99
19) 1,1-Dichloroethane	3.42	63	262212	48.773 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	150083	49.660 ug/L	97
22) 2-Butanone	4.24	43	226810	109.601 ug/L	96

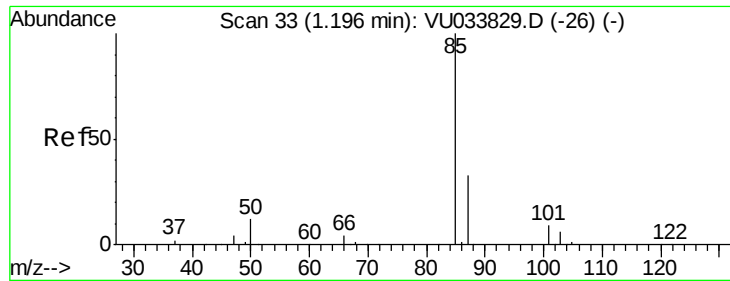
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081819\
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 Quant Title : VOC Analysis
 QLast Update : Sat Aug 17 02:15:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	79130	48.022	ug/L	95
25) Chloroform	4.65	83	270798	48.468	ug/L	98
27) 1,2-Dichloroethane	5.38	62	211380	49.902	ug/L	98
29) Cyclohexane	4.97	56	217241	52.807	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	226611	49.023	ug/L	99
31) Carbon tetrachloride	5.11	117	204370	48.585	ug/L	99
33) Benzene	5.37	78	583595	50.315	ug/L	100
34) Trichloroethene	6.16	95	152365	49.221	ug/L	99
35) Methylcyclohexane	6.40	83	239211	52.771	ug/L	99
37) 1,2-Dichloropropane	6.41	63	156642	49.318	ug/L	100
38) Bromodichloromethane	6.74	83	203095	49.387	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	232133	50.147	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	391810	105.086	ug/L	100
42) Toluene	7.62	91	638759	52.094	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	216907	50.987	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	147013	49.314	ug/L	99
46) Tetrachloroethene	8.21	164	122662	49.426	ug/L	98
48) 2-Hexanone	8.34	43	319425	109.258	ug/L	99
49) Dibromochloromethane	8.46	129	165699	49.224	ug/L	99
50) 1,2-Dibromoethane	8.57	107	159493	50.247	ug/L	100
51) Chlorobenzene	9.10	112	401984	49.635	ug/L	99
52) Ethylbenzene	9.23	91	665739	51.245	ug/L	100
53) m,p-Xylene	9.36	106	254274	52.289	ug/L	97
54) o-xylene	9.76	106	247205	52.463	ug/L	97
55) Styrene	9.77	104	435645	53.959	ug/L	100
56) Isopropylbenzene	10.15	105	647999	52.596	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	237760	49.275	ug/L	97
59) 1,2,3-Trichloropropane	10.48	75	193853	50.388	ug/L	98
61) Bromoform	9.94	173	123587	48.200	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	317180	49.096	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	324760	48.558	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	316217	48.828	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	53482	49.668	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	241365	48.435	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	201662	49.421	ug/L	99
69) Naphthalene	13.73	128	587166	52.136	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	211706	49.989	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 50.055 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

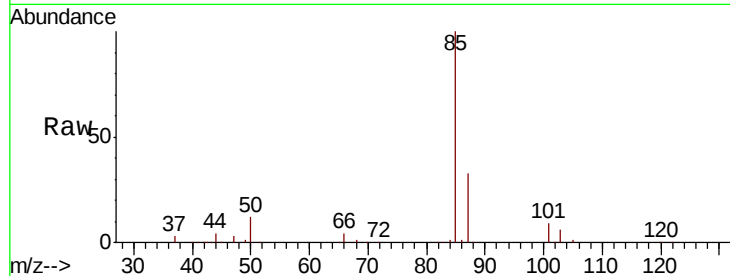
VSTD05046

Tgt Ion: 85 Resp: 190309

Ion Ratio Lower Upper

85 100

87 32.3 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU033829.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033829.D (-26) (-)

1.20

200000

150000

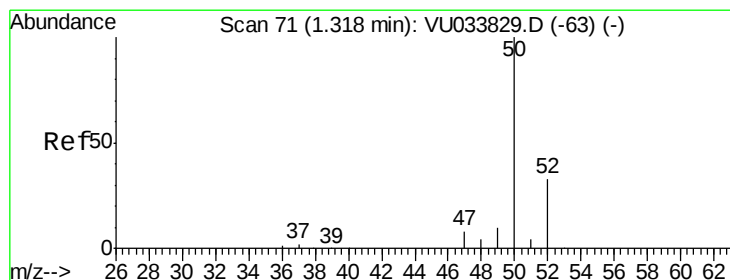
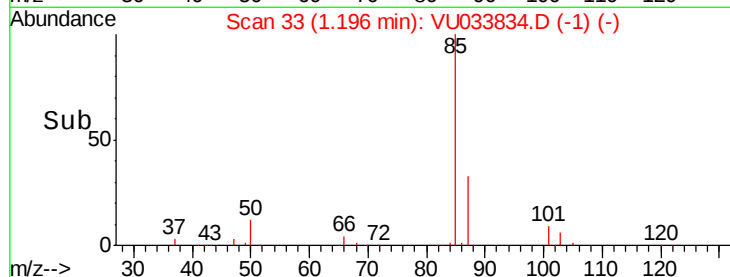
100000

50000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 49.183 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033834.D

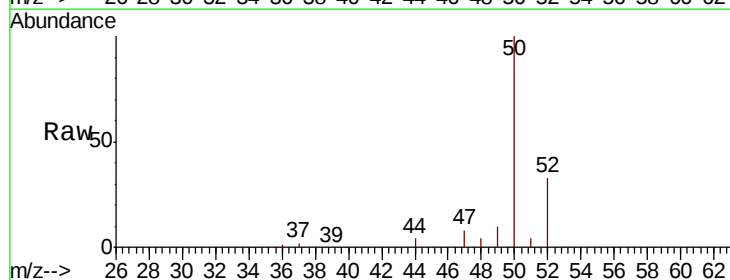
Acq: 16 Aug 2019 14:33

Tgt Ion: 50 Resp: 192318

Ion Ratio Lower Upper

50 100

52 33.4 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033829.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033829.D (-63) (-)

1.32

200000

150000

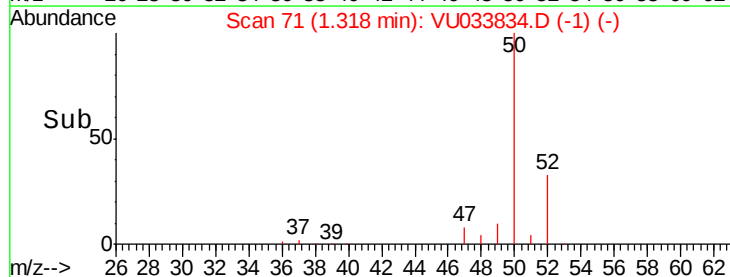
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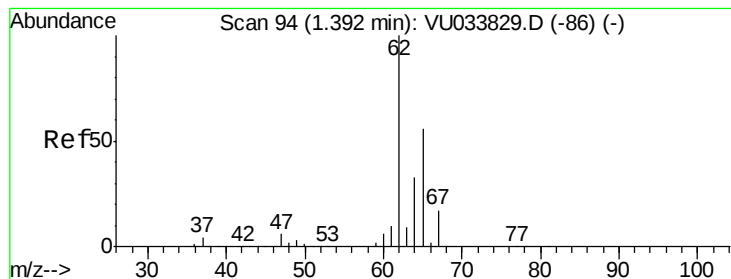
50000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 47.903 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

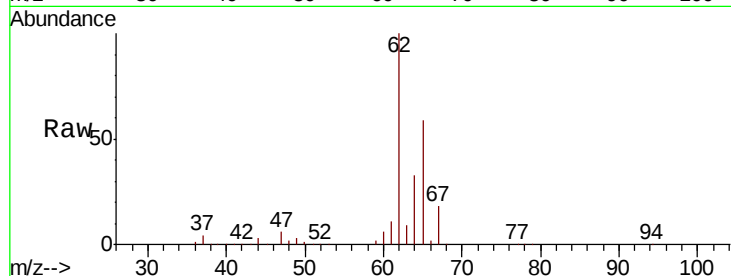
VSTD05046

Tgt Ion: 62 Resp: 208644

Ion Ratio Lower Upper

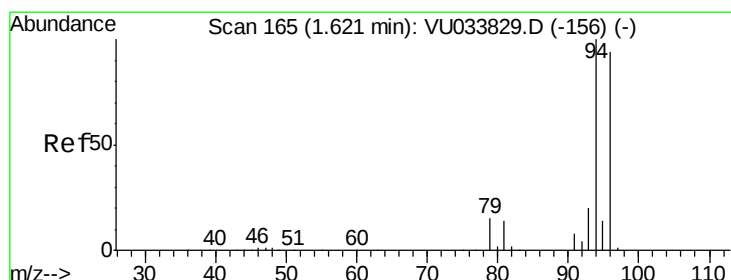
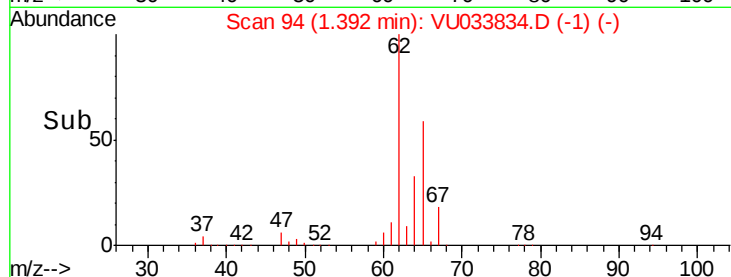
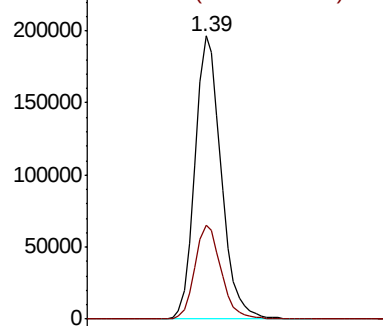
62 100

64 33.3 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VU033829.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033829.D (-86) (-)



#6

Bromomethane

Concen: 54.059 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033834.D

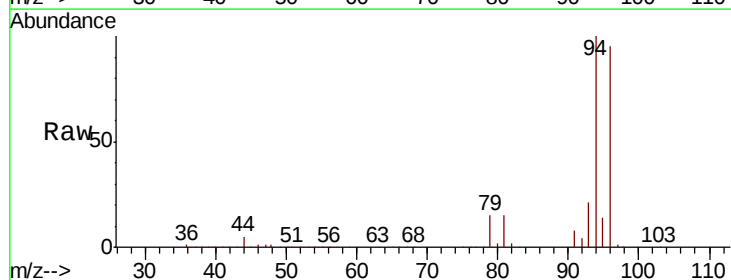
Acq: 16 Aug 2019 14:33

Tgt Ion: 94 Resp: 178018

Ion Ratio Lower Upper

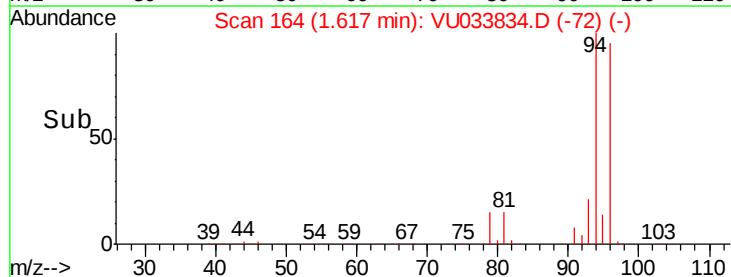
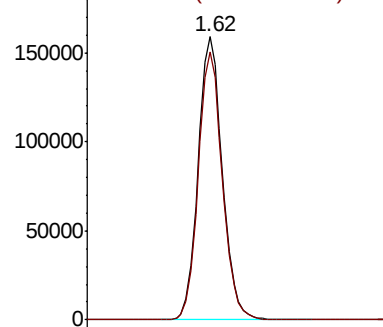
94 100

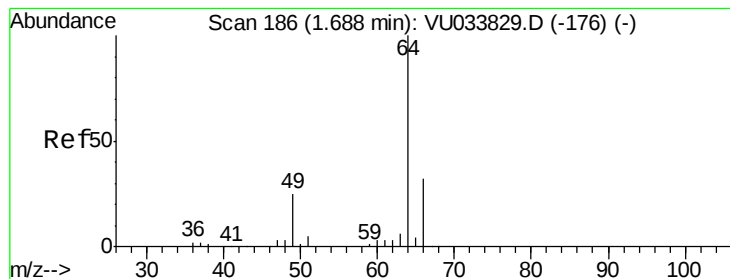
96 94.5 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU033829.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU033829.D (-156) (-)





#8

Chloroethane

Concen: 44.163 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

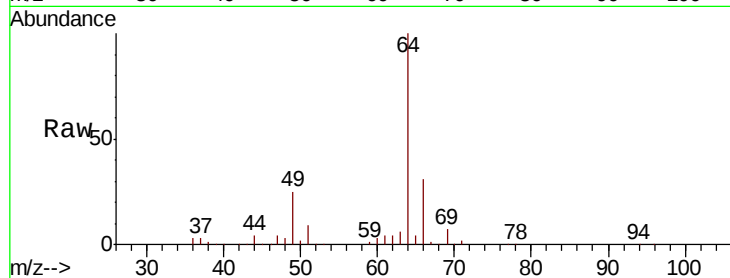
VSTD05046

Tgt Ion: 64 Resp: 133251

Ion Ratio Lower Upper

64 100

66 31.5 23.9 44.3



Abundance Ion 64.00 (63.70 to 64.70): VU033829.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033829.D (-176) (-)

1.69

120000

100000

80000

60000

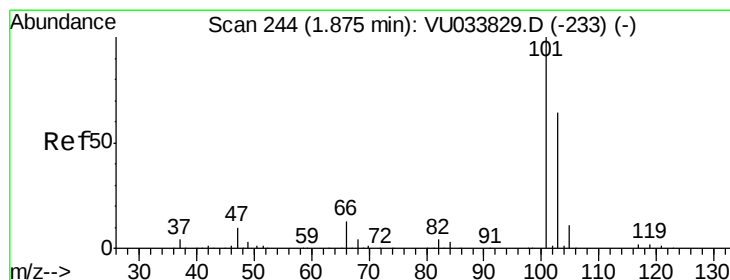
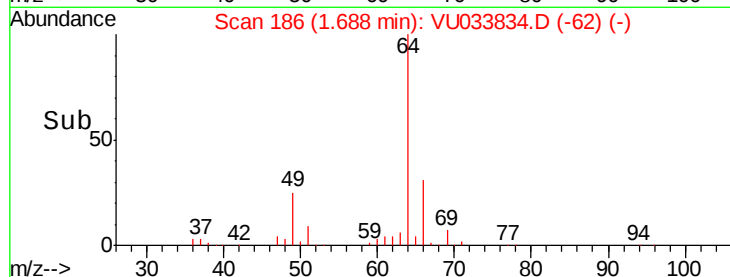
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 47.831 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033834.D

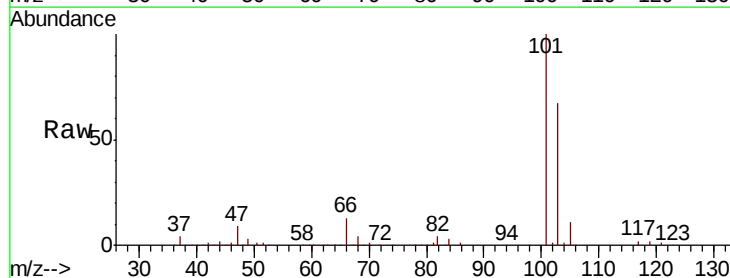
Acq: 16 Aug 2019 14:33

Tgt Ion: 101 Resp: 276280

Ion Ratio Lower Upper

101 100

103 66.1 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU033829.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033829.D (-233) (-)

1.87

200000

150000

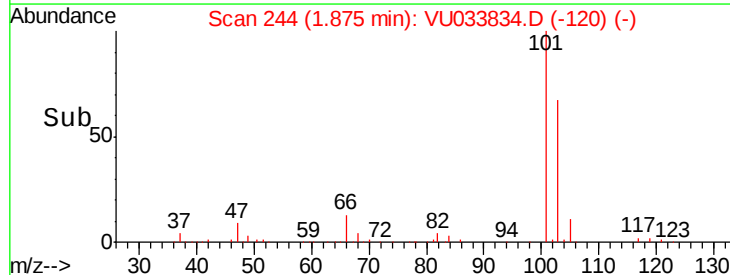
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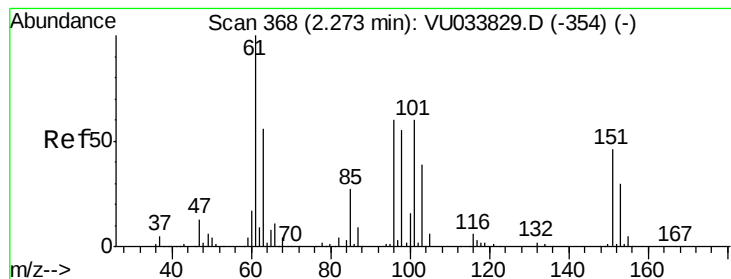
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 50.324 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampled :

VSTD05046

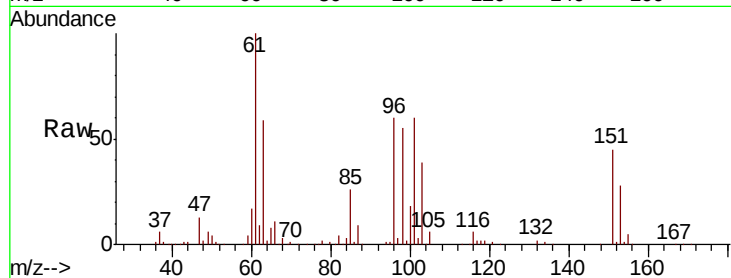
Tgt Ion: 101 Resp: 139149

Ion Ratio Lower Upper

101 100

85 44.8 35.2 52.8

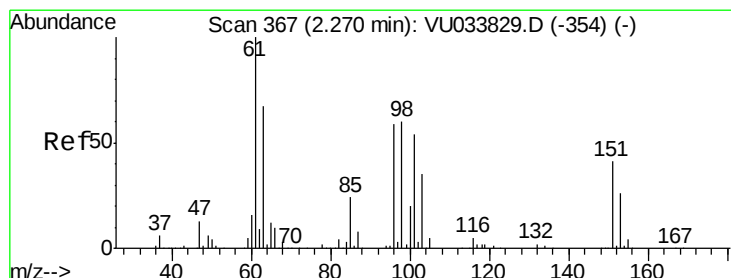
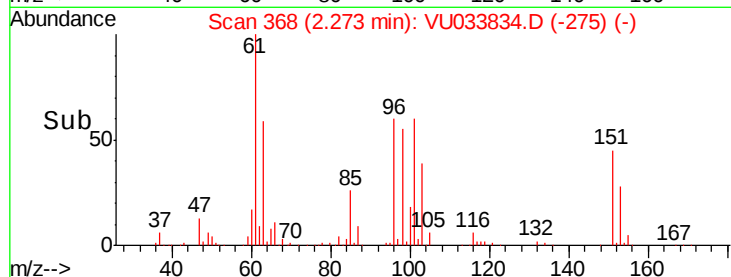
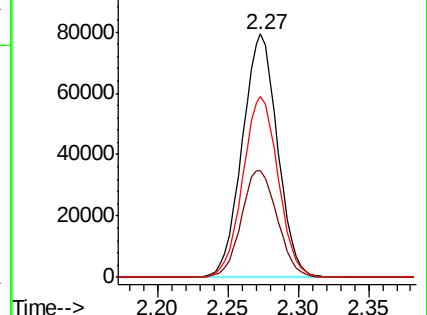
151 74.4 60.4 90.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 47.862 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

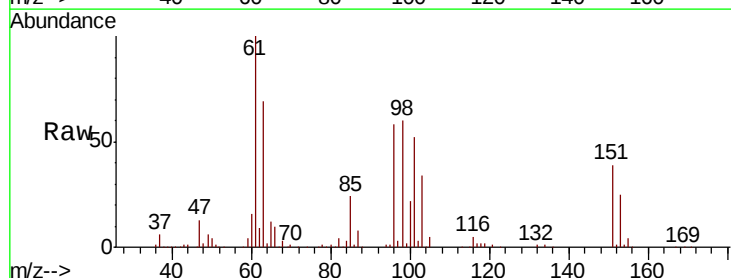
Tgt Ion: 96 Resp: 128273

Ion Ratio Lower Upper

96 100

61 171.5 123.7 229.7

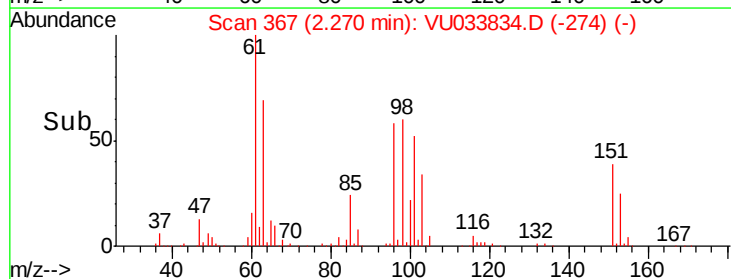
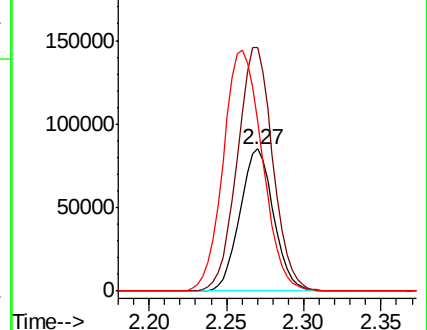
63 119.2 91.2 169.4

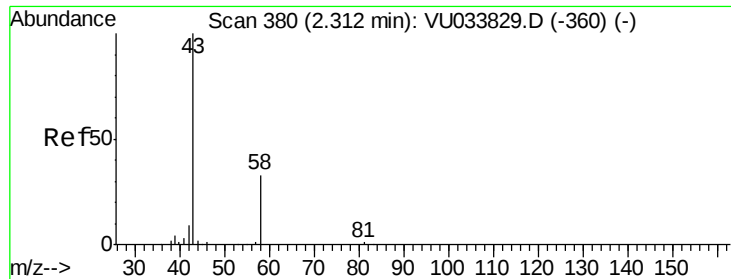


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 101.585 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

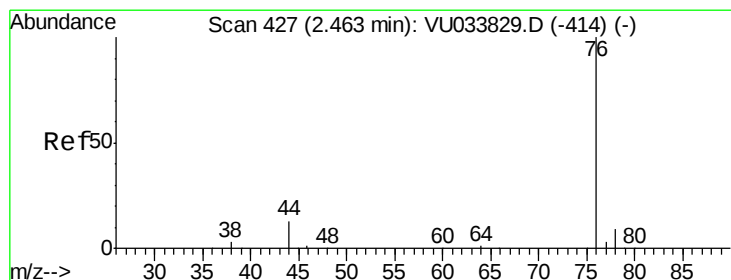
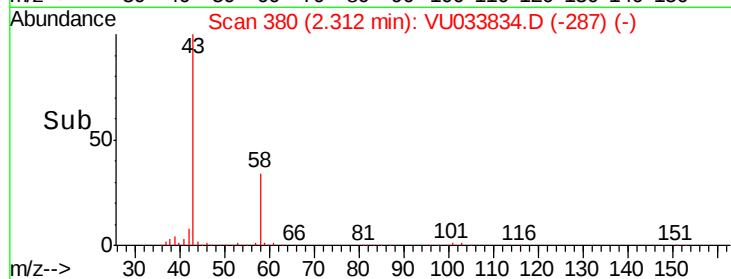
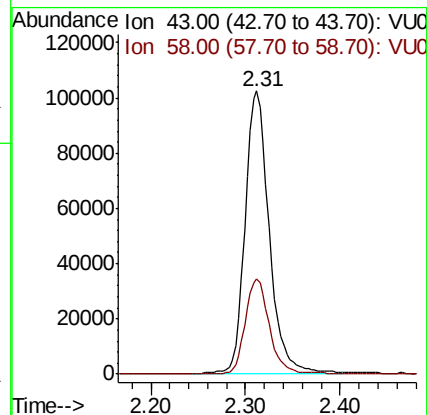
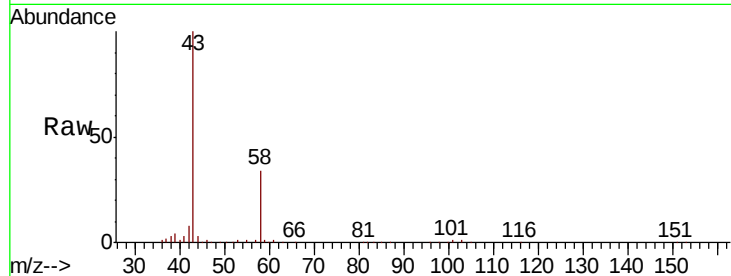
VSTD05046

Tgt Ion: 43 Resp: 182671

Ion Ratio Lower Upper

43 100

58 33.1 0.0 69.0



#14

Carbon disulfide

Concen: 47.001 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033834.D

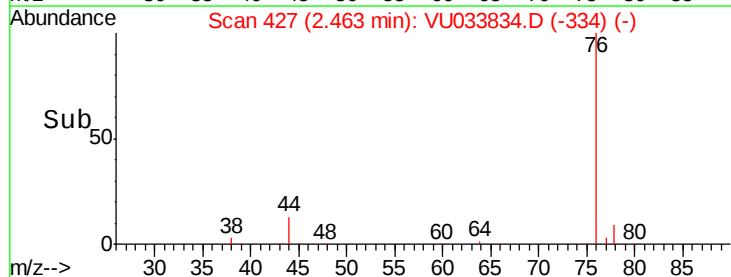
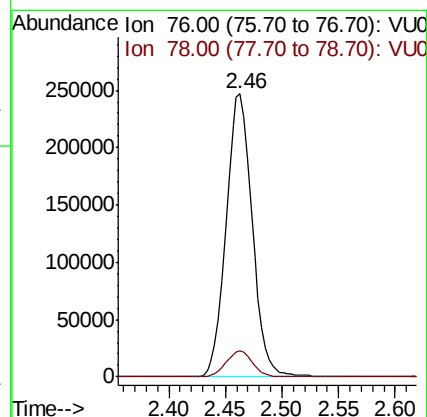
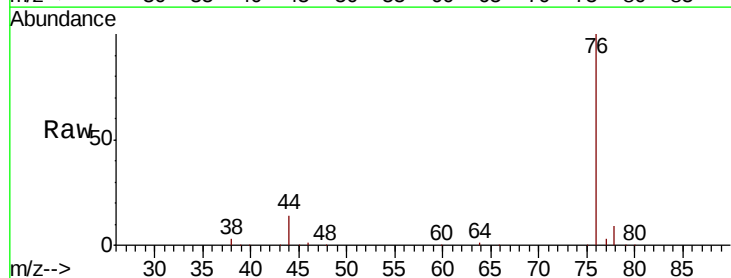
Acq: 16 Aug 2019 14:33

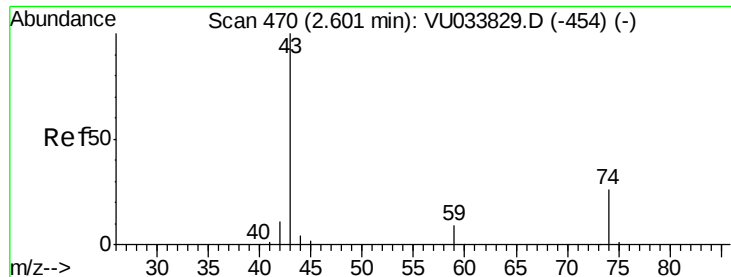
Tgt Ion: 76 Resp: 397213

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2





#15

Methyl Acetate

Concen: 50.123 ug/L

RT: 2.60 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

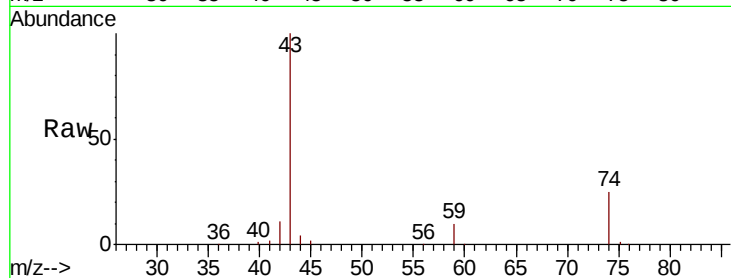
VSTD05046

Tgt Ion: 43 Resp: 148636

Ion Ratio Lower Upper

43 100

74 24.9 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VU033834.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU033834.D (-377) (-)

80000

60000

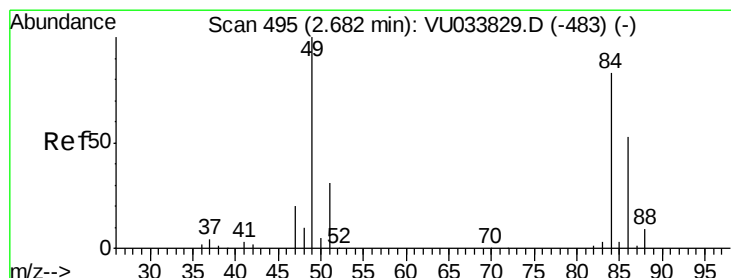
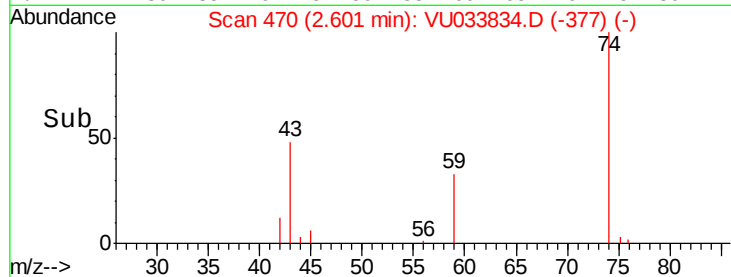
40000

20000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 48.846 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

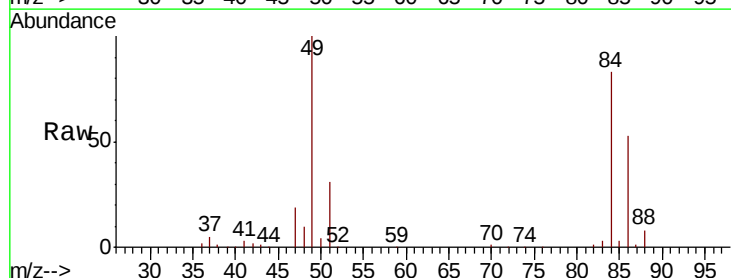
Tgt Ion: 84 Resp: 151699

Ion Ratio Lower Upper

84 100

86 63.5 46.1 85.5

49 119.8 85.6 159.0



Abundance Ion 84.00 (83.70 to 84.70): VU033834.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU033834.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU033834.D (-402) (-)

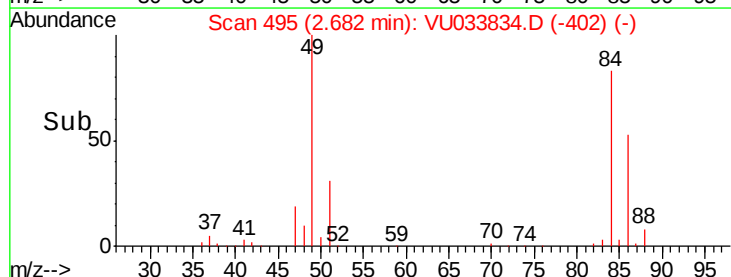
100000

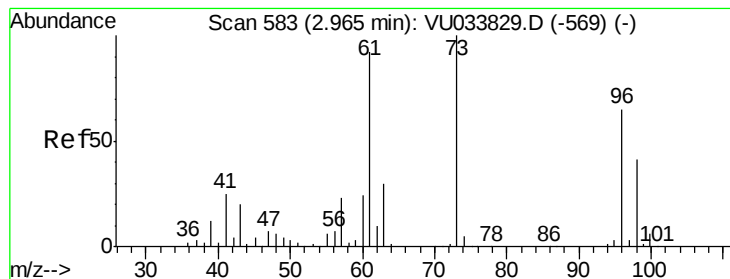
50000

0

Time-->

2.60 2.65 2.70 2.75





#17

trans-1,2-Dichloroethene

Concen: 48.628 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

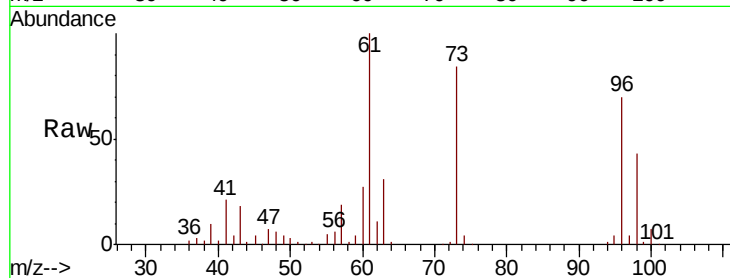
Tgt Ion: 96 Resp: 135856

Ion Ratio Lower Upper

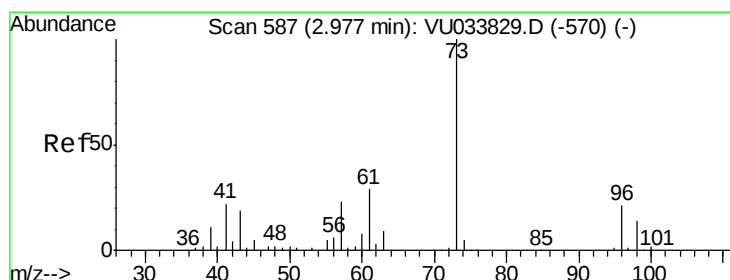
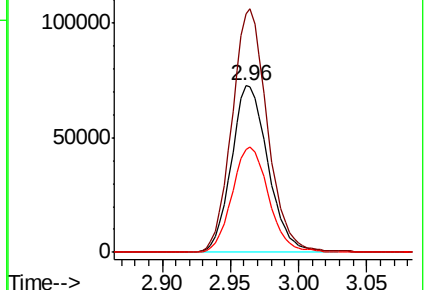
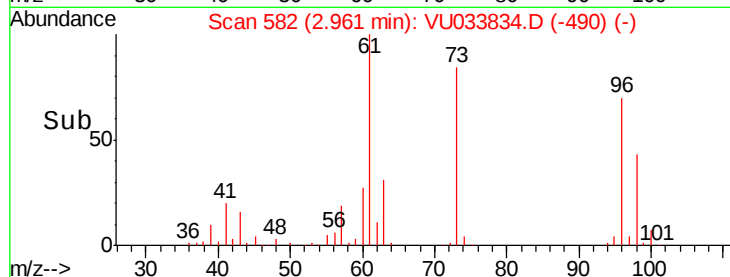
96 100

61 143.1 98.6 183.2

98 62.0 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU033834.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 49.662 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

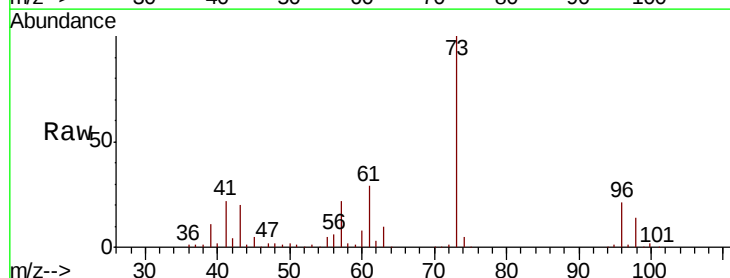
Tgt Ion: 73 Resp: 404900

Ion Ratio Lower Upper

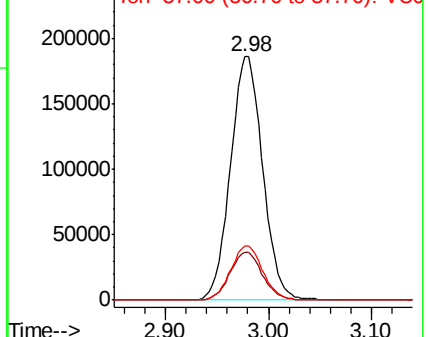
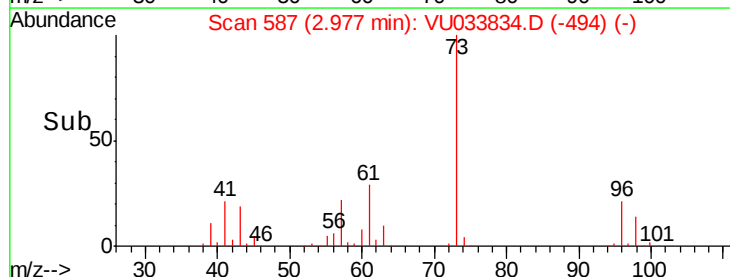
73 100

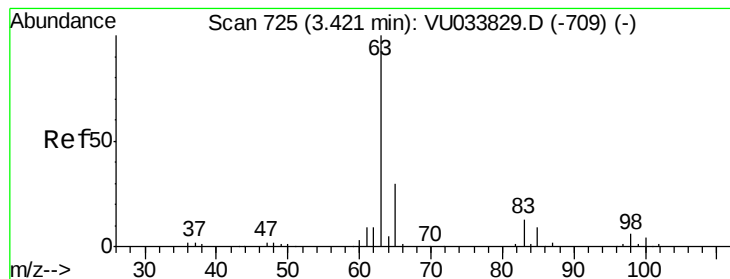
43 19.5 15.2 22.8

57 22.2 17.8 26.8



Abundance Ion 73.00 (72.70 to 73.70): VU033834.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 48.773 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

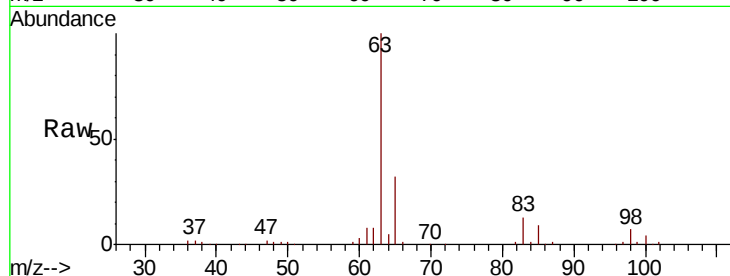
Tgt Ion: 63 Resp: 262212

Ion Ratio Lower Upper

63 100

65 31.8 21.8 40.6

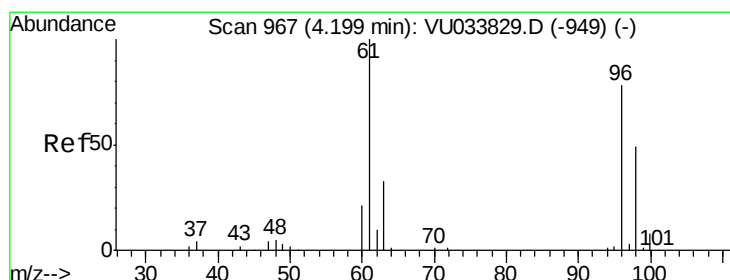
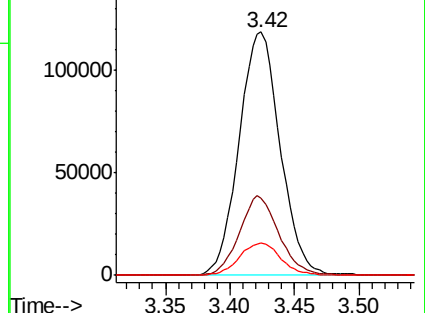
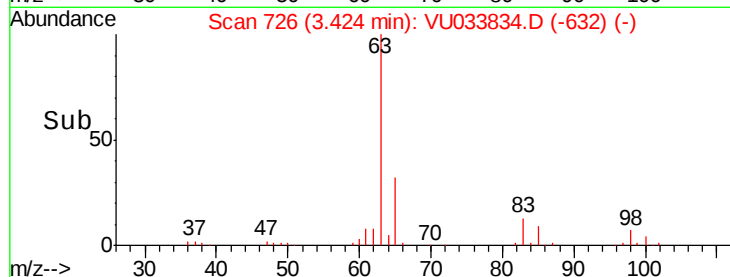
83 13.1 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU033834.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033834.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033834.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.660 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

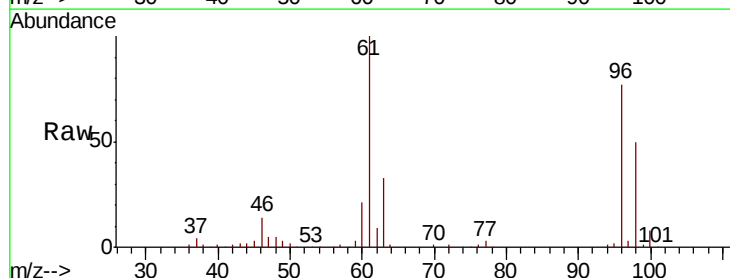
Tgt Ion: 96 Resp: 150083

Ion Ratio Lower Upper

96 100

61 129.5 88.2 163.8

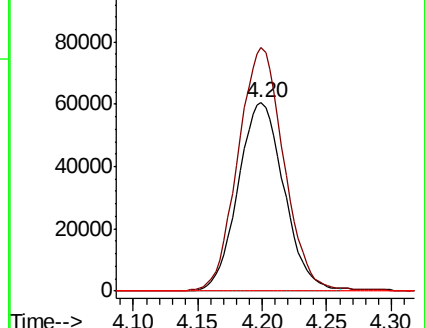
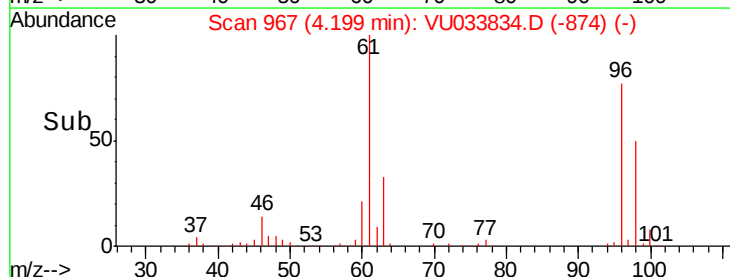
68 0.0 0.0 0.0

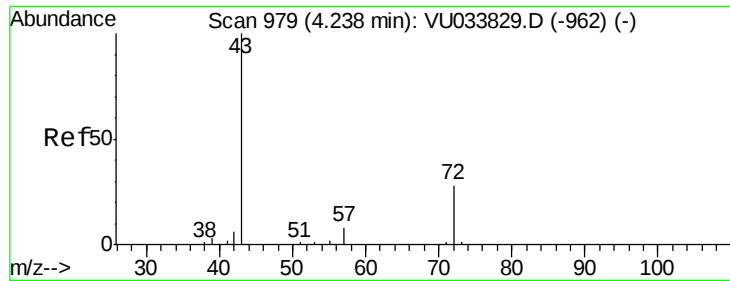


Abundance Ion 96.00 (95.70 to 96.70): VU033834.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033834.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033834.D (-874) (-)





#22

2-Butanone

Concen: 109.601 ug/L

RT: 4.24 min Scan# 979

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

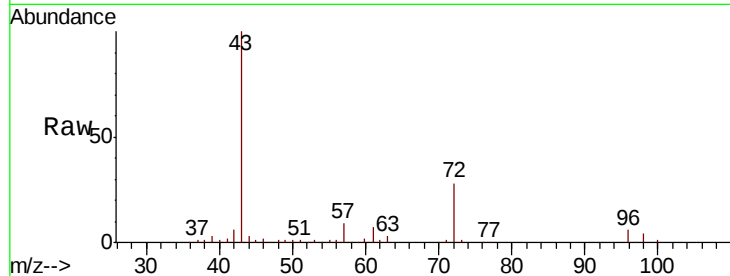
VSTD05046

Tgt Ion: 43 Resp: 226810

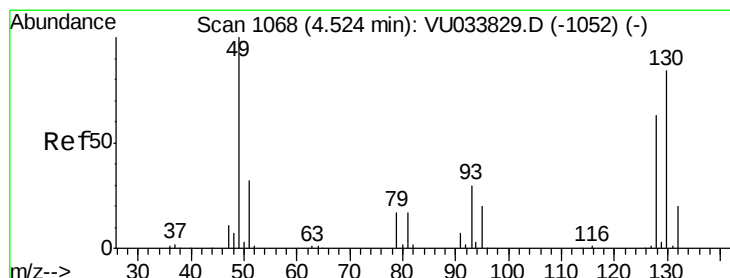
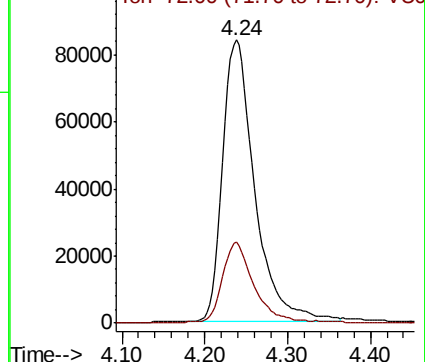
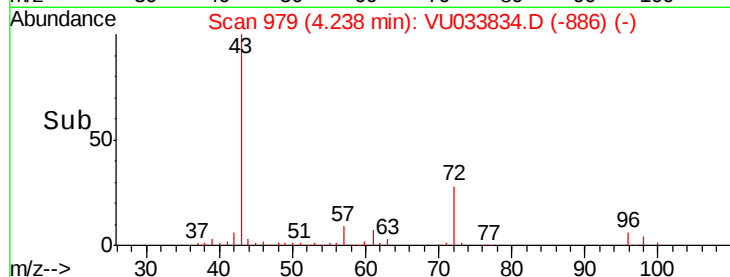
Ion Ratio Lower Upper

43 100

72 26.9 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033834.D (-886) (-)



#23

Bromochloromethane

Concen: 48.022 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Tgt Ion: 128 Resp: 79130

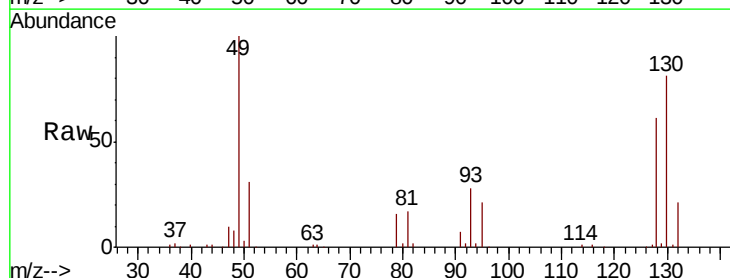
Ion Ratio Lower Upper

128 100

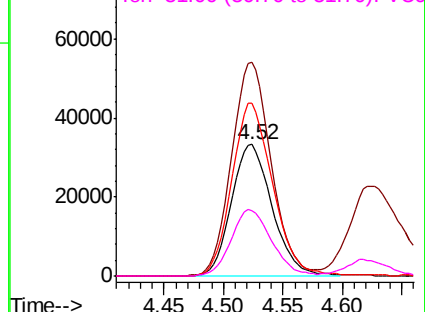
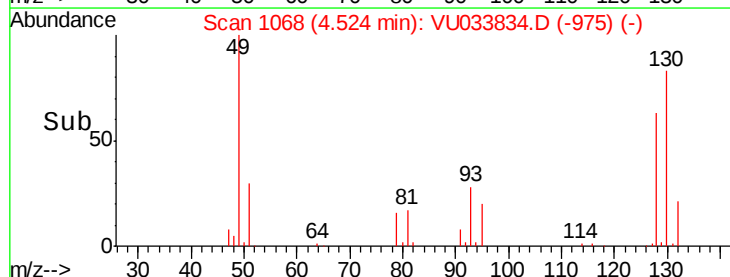
49 162.6 106.7 198.3

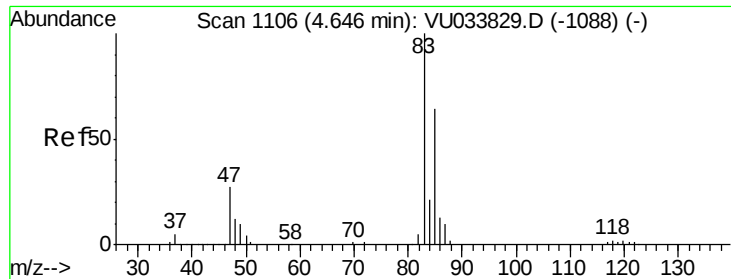
130 132.0 90.4 168.0

51 49.9 38.4 57.6



Abundance Ion 128.00 (127.70 to 128.70): VU033834.D (-975) (-)

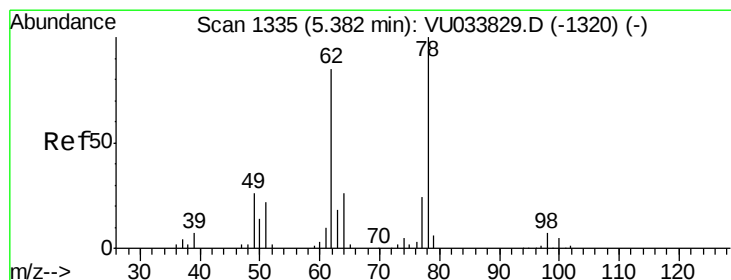
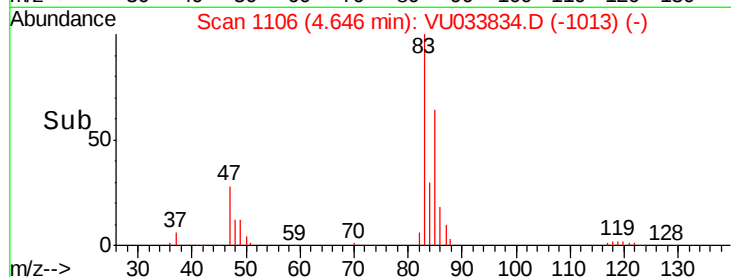
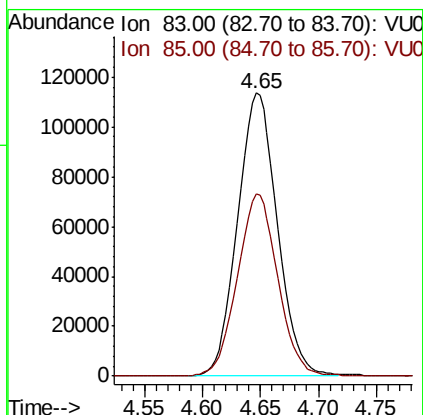
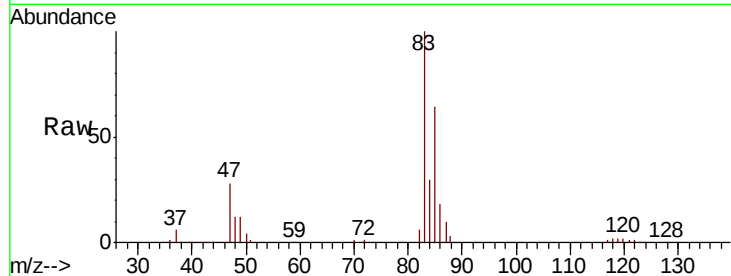




#25
Chloroform
Concen: 48.468 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

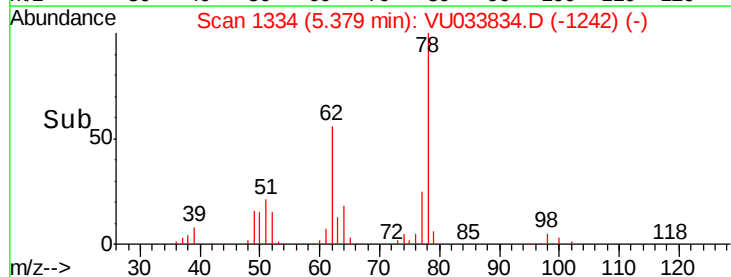
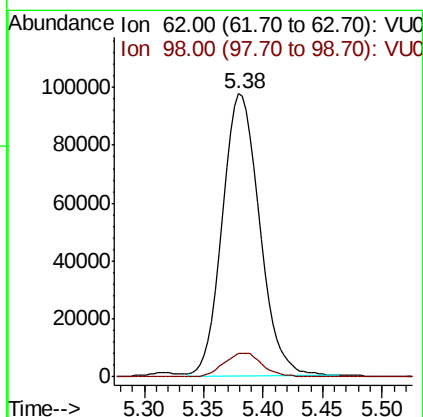
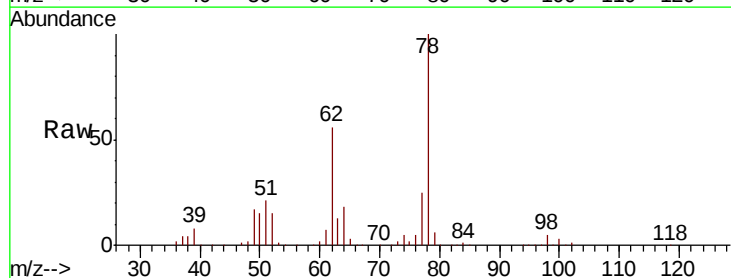
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

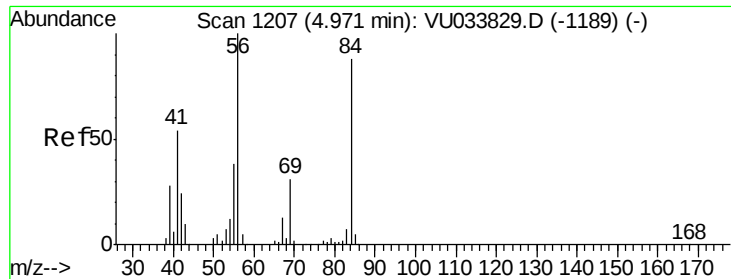
Tgt Ion: 83 Resp: 270798
Ion Ratio Lower Upper
83 100
85 64.3 46.3 86.1



#27
1,2-Dichloroethane
Concen: 49.902 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

Tgt Ion: 62 Resp: 211380
Ion Ratio Lower Upper
62 100
98 8.2 7.0 10.6

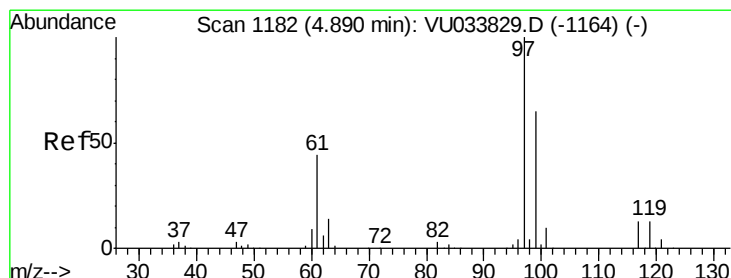
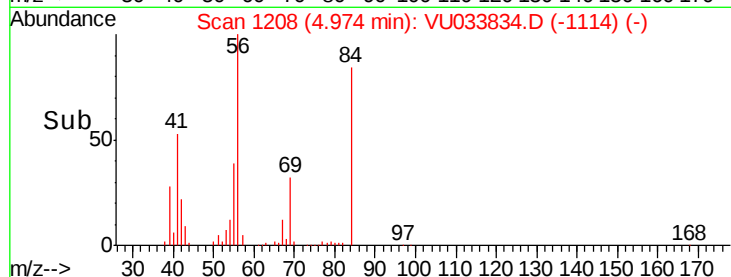
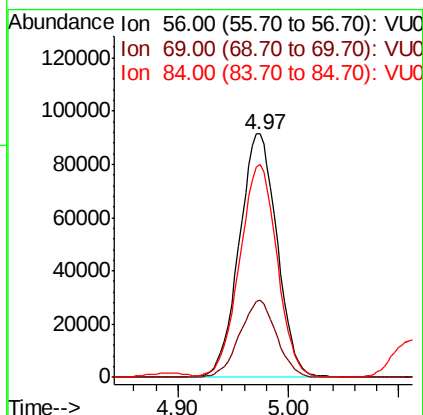
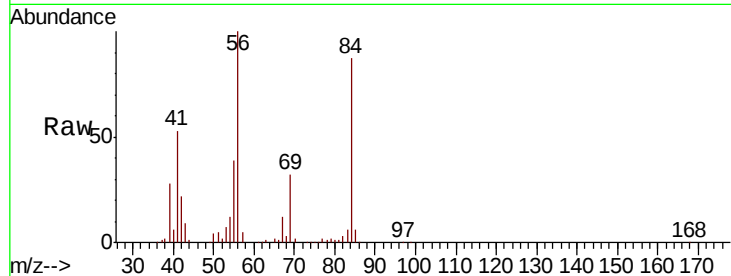




#29
Cyclohexane
Concen: 52.807 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

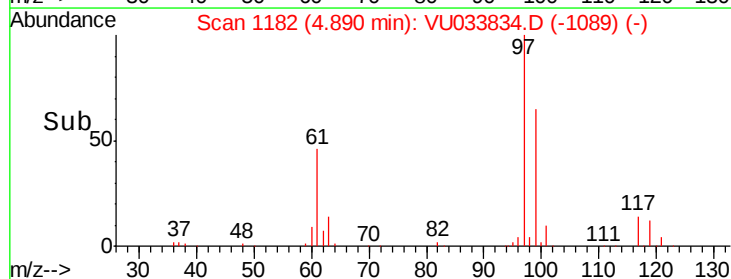
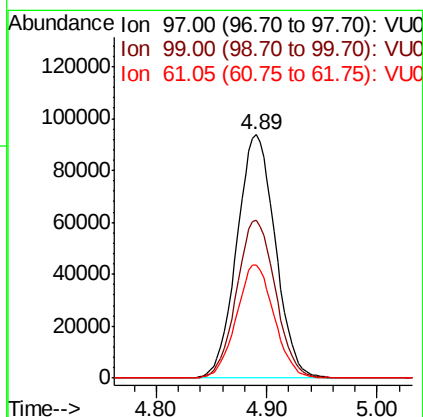
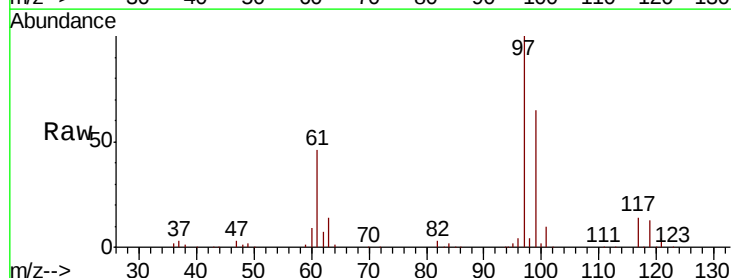
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

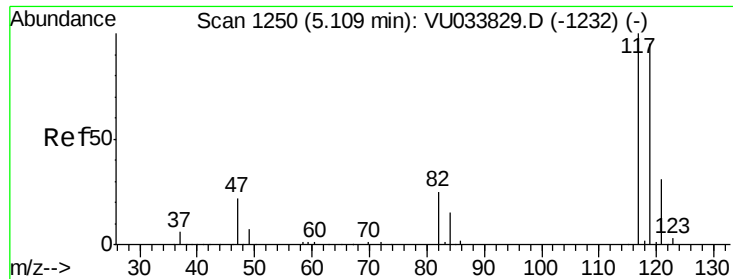
Tgt Ion: 56 Resp: 217241
Ion Ratio Lower Upper
56 100
69 30.9 24.4 36.6
84 86.7 69.0 103.4



#30
1,1,1-Trichloroethane
Concen: 49.023 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

Tgt Ion: 97 Resp: 226611
Ion Ratio Lower Upper
97 100
99 65.2 51.8 77.8
61 45.6 35.8 53.6

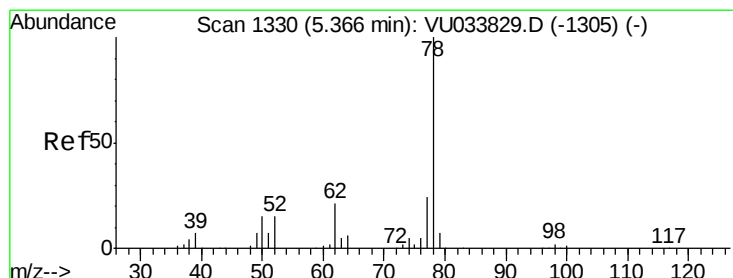
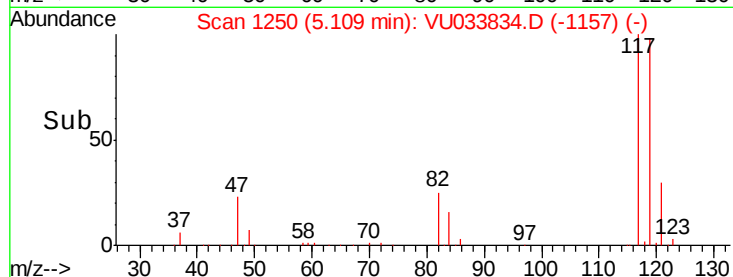
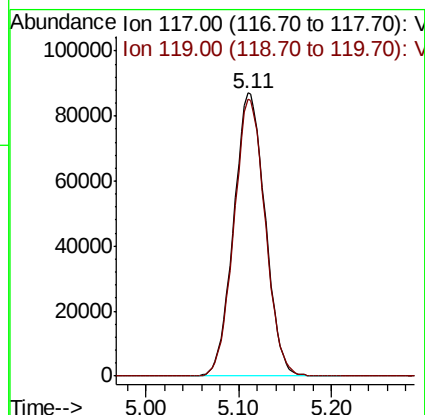
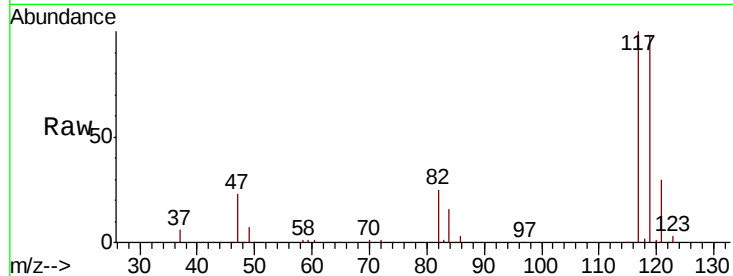




#31
Carbon tetrachloride
Concen: 48.585 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

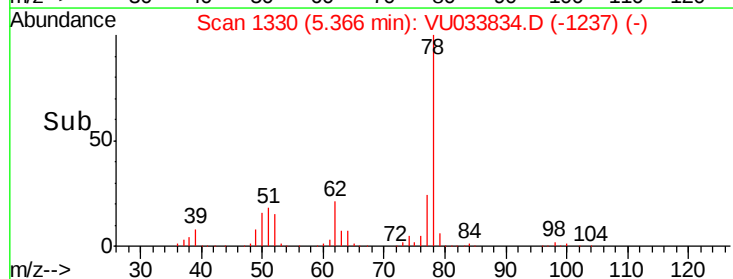
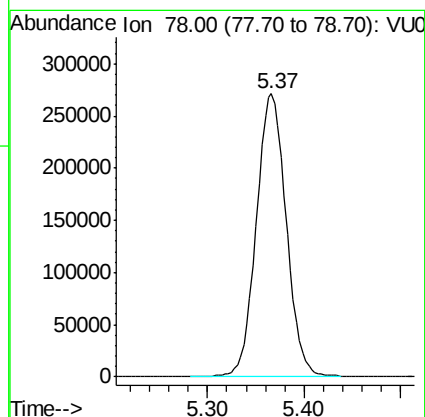
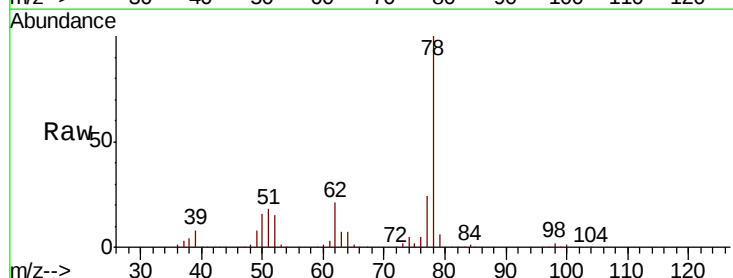
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

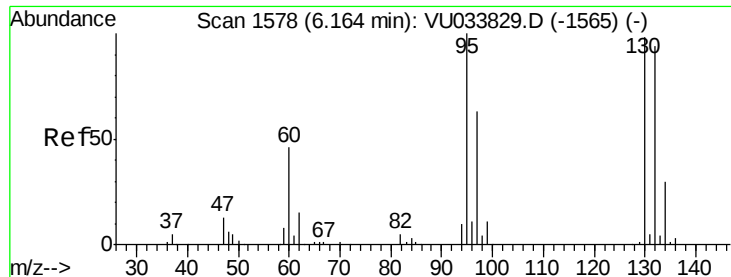
Tgt Ion:117 Resp: 204370
Ion Ratio Lower Upper
117 100
119 97.4 77.0 115.6



#33
Benzene
Concen: 50.315 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

Tgt Ion: 78 Resp: 583595

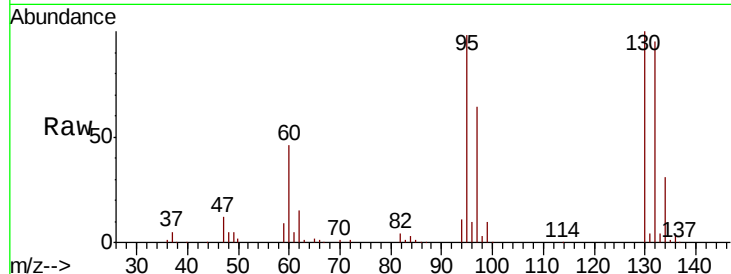




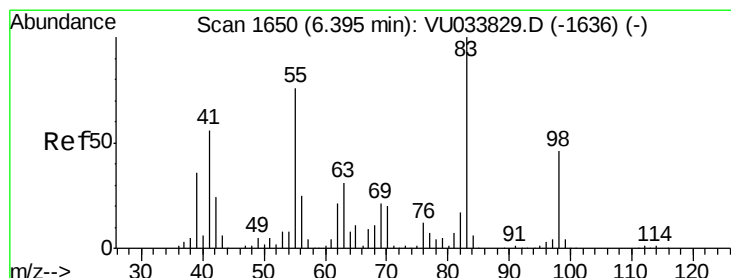
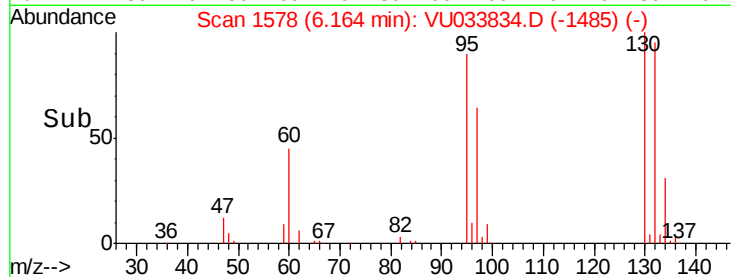
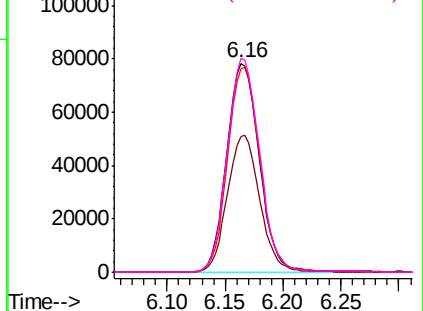
#34
 Trichloroethene
 Concen: 49.221 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion: 95 Resp: 152365
 Ion Ratio Lower Upper
 95 100
 97 65.2 46.3 86.1
 132 97.5 67.9 126.1
 130 102.3 72.0 133.6

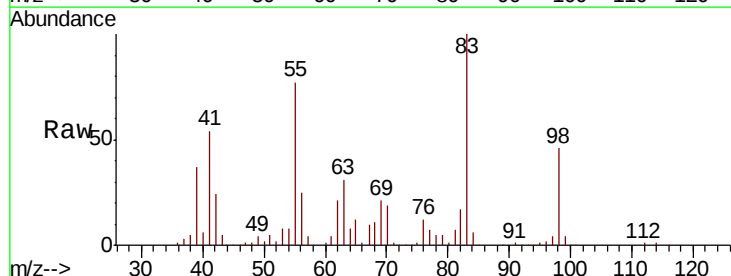


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

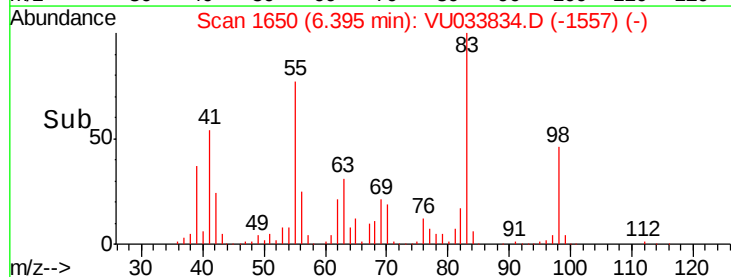
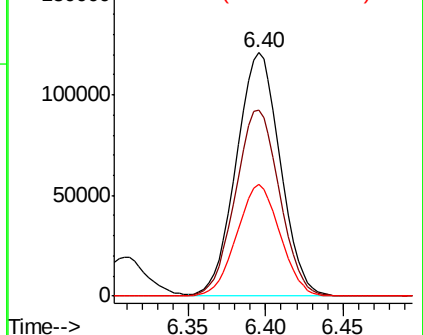


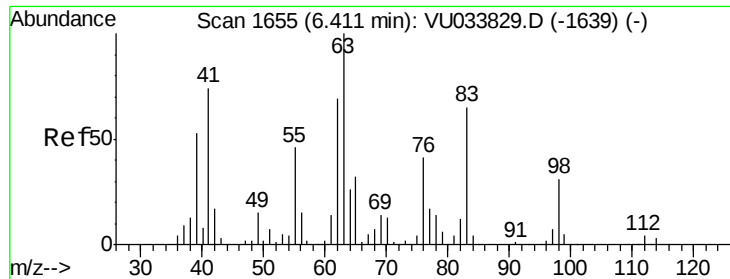
#35
 Methylcyclohexane
 Concen: 52.771 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Tgt Ion: 83 Resp: 239211
 Ion Ratio Lower Upper
 83 100
 55 77.0 61.6 92.4
 98 45.3 37.2 55.8



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

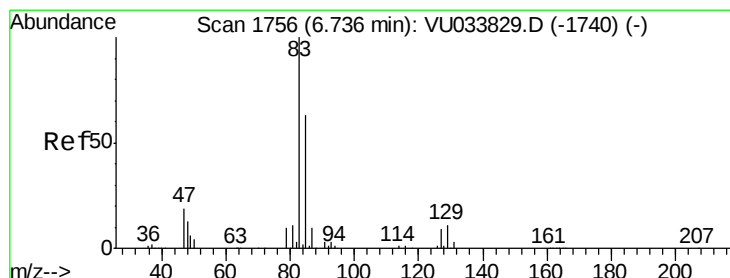
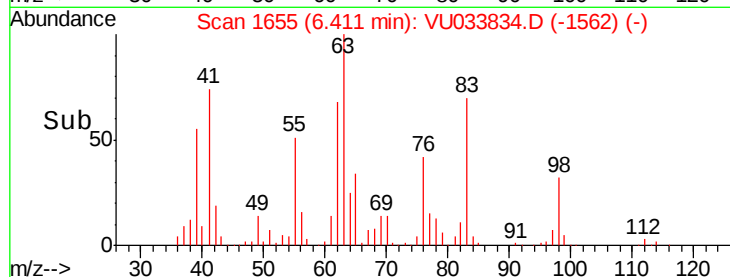
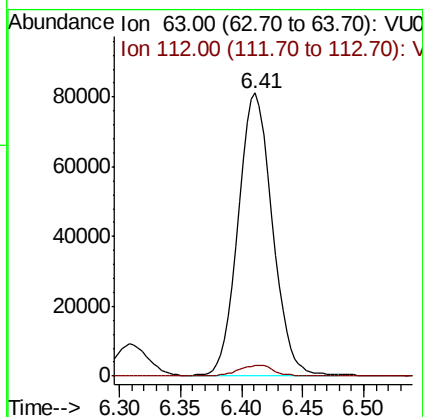
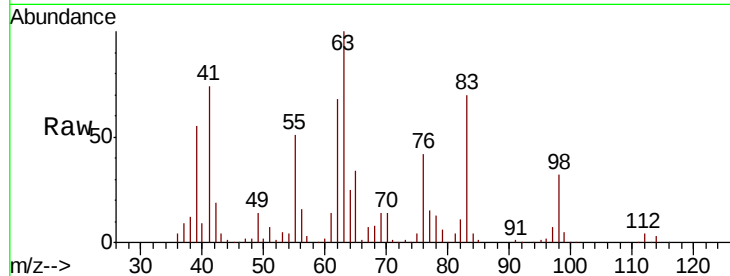




#37
 1,2-Dichloropropane
 Concen: 49.318 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

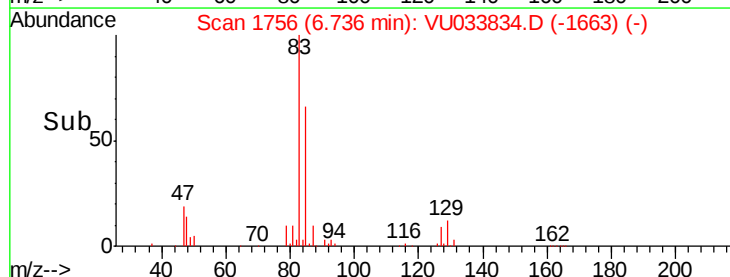
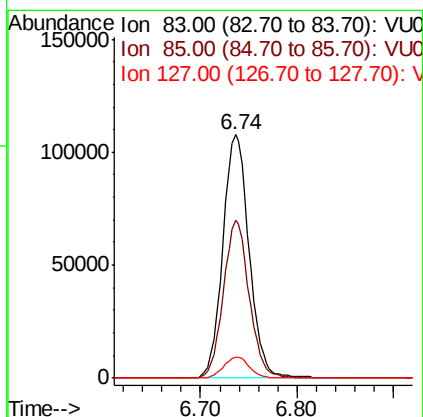
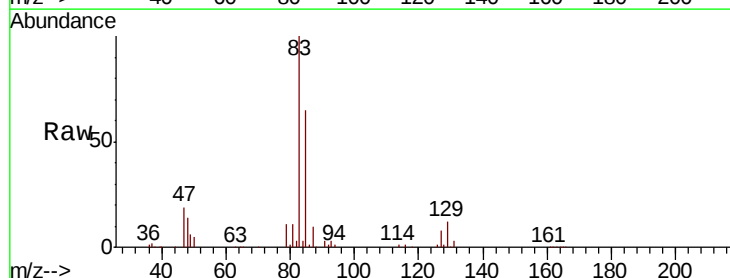
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

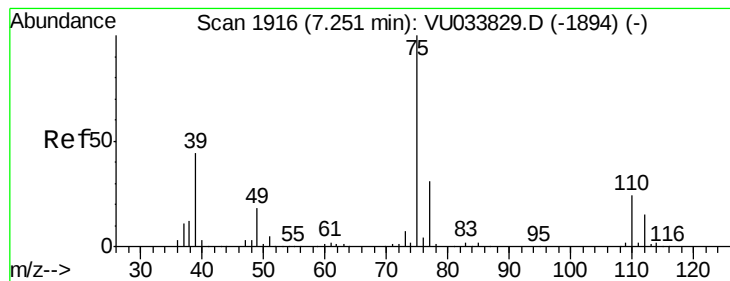
Tgt Ion: 63 Resp: 156642
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.2 4.8



#38
 Bromodichloromethane
 Concen: 49.387 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Tgt Ion: 83 Resp: 203095
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.9 85.3
 127 8.5 7.3 10.9



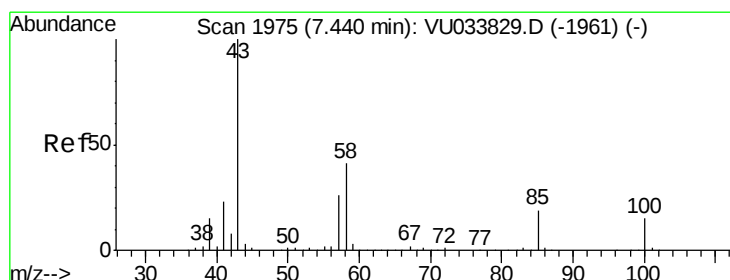
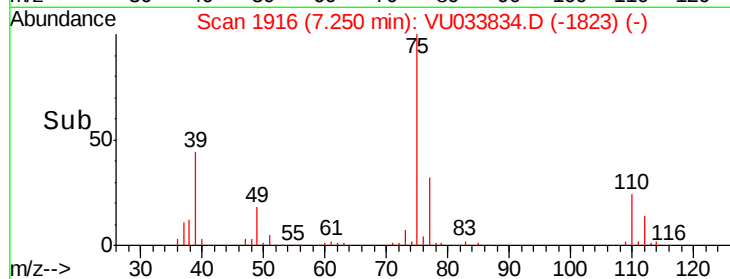
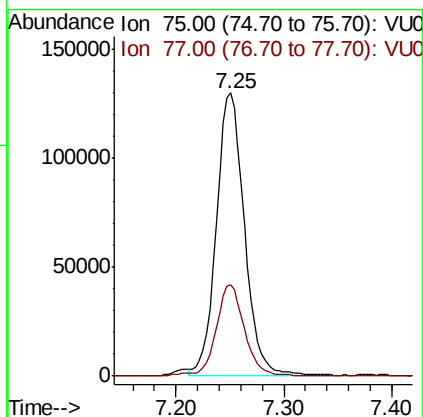
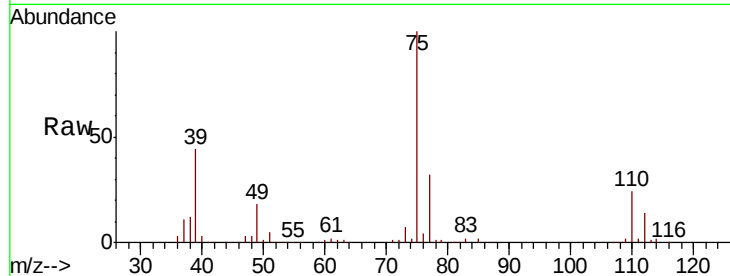


#39

cis-1,3-Dichloropropene
 Concen: 50.147 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

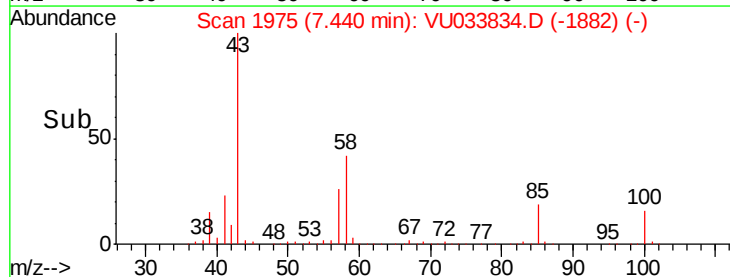
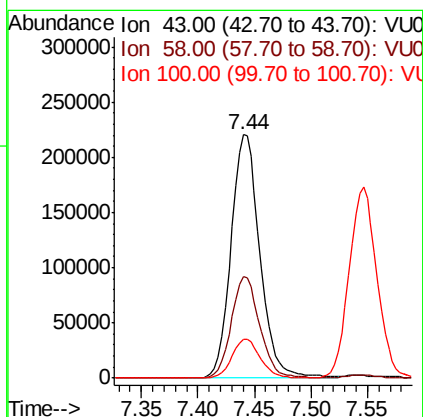
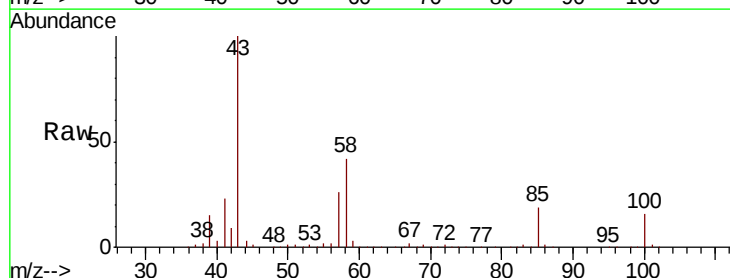
Tgt Ion: 75 Resp: 232133
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.5 41.7

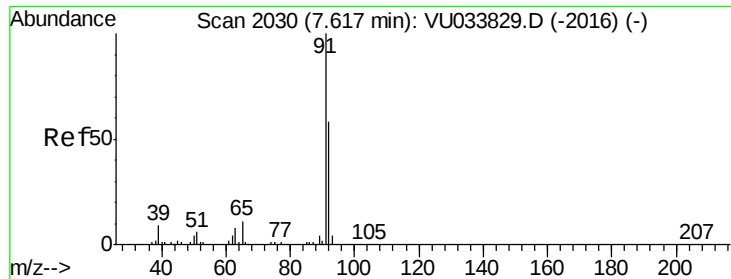


#40

4-Methyl-2-pentanone
 Concen: 105.086 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Tgt Ion: 43 Resp: 391810
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.6 49.0
 100 15.8 12.4 18.6





#42

Toluene

Concen: 52.094 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

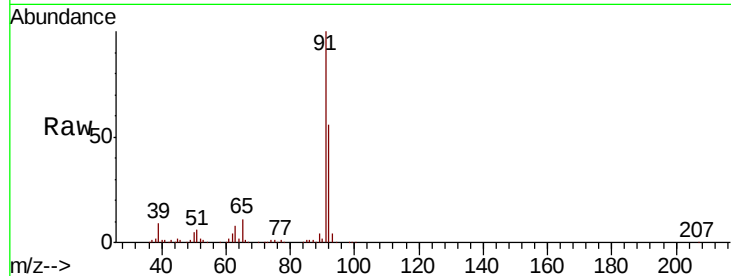
VSTD05046

Tgt Ion: 91 Resp: 638759

Ion Ratio Lower Upper

91 100

92 56.0 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU033829.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033829.D (-2016) (-)

7.62

400000

300000

200000

100000

0

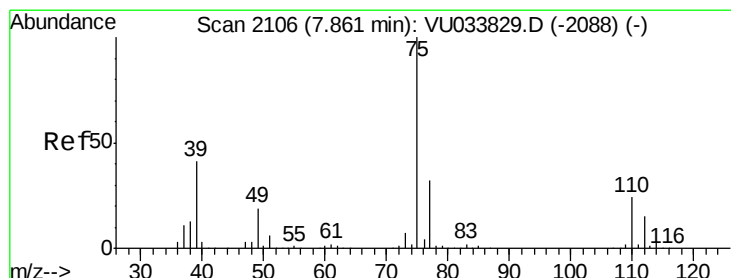
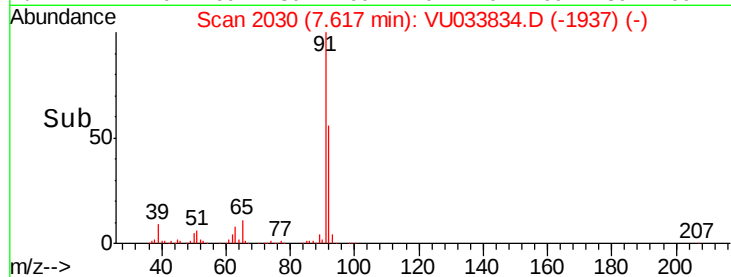
Time-->

7.50

7.60

7.70

7.80



#44

trans-1,3-Dichloropropene

Concen: 50.987 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033834.D

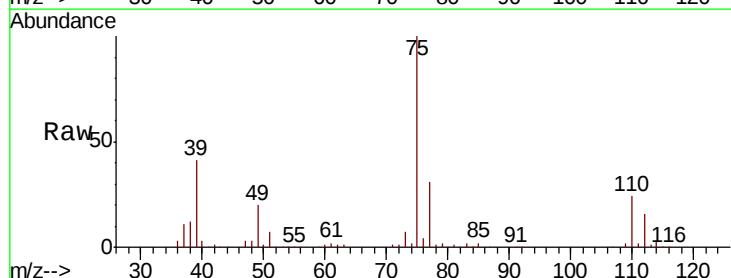
Acq: 16 Aug 2019 14:33

Tgt Ion: 75 Resp: 216907

Ion Ratio Lower Upper

75 100

77 31.3 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VU033829.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033829.D (-2088) (-)

7.86

100000

50000

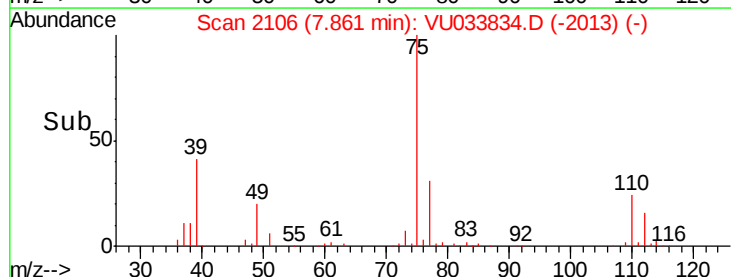
0

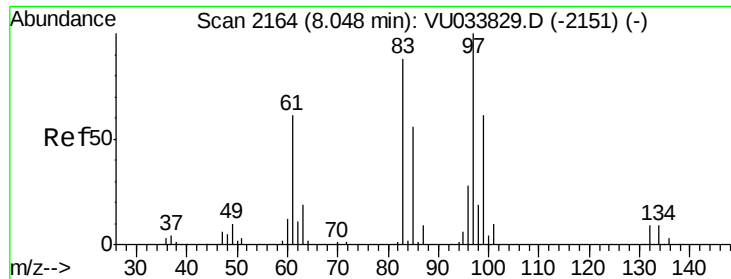
Time-->

7.80

7.90

8.00

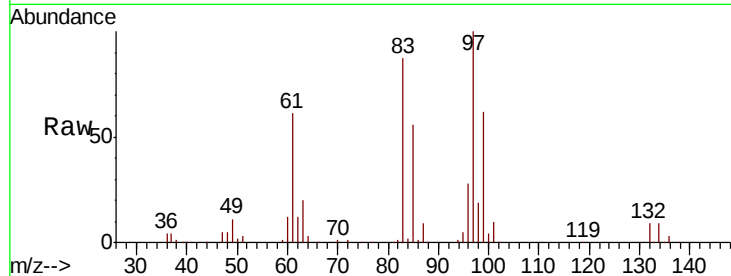




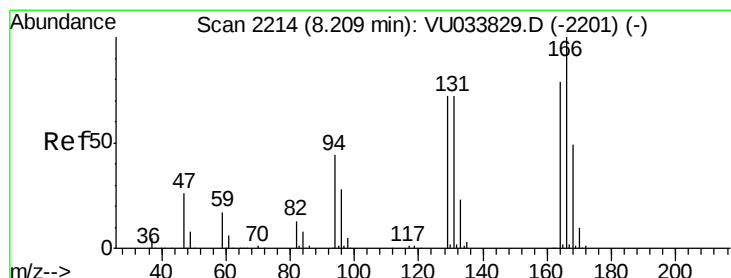
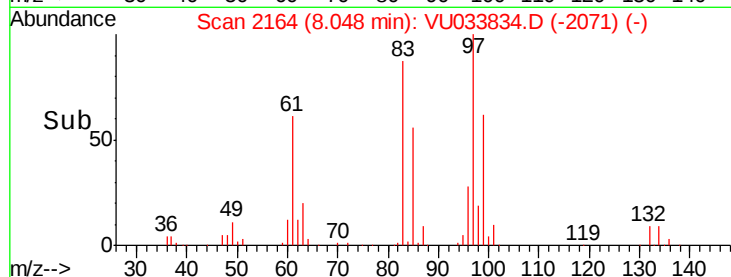
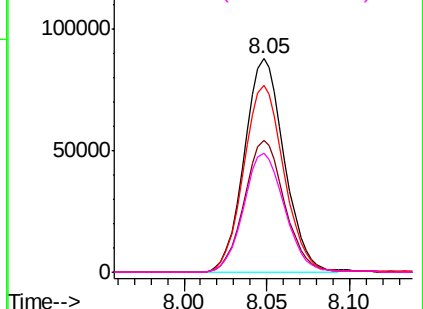
#45
 1,1,2-Trichloroethane
 Concen: 49.314 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	97	Resp:	147013
Ion	Ratio	Lower	Upper
97	100		
99	61.9	43.9	81.5
83	87.3	61.7	114.5
85	55.6	39.2	72.8

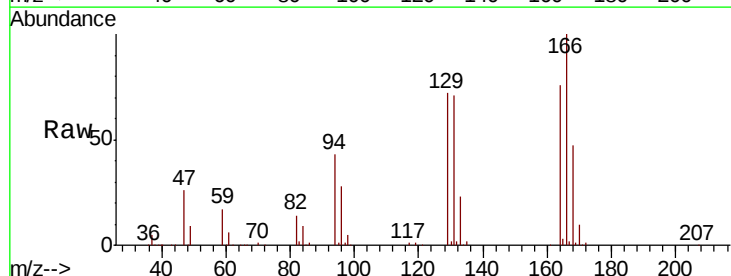


Abundance Ion 97.00 (96.70 to 97.70): VU033834.D (-2164) (-)

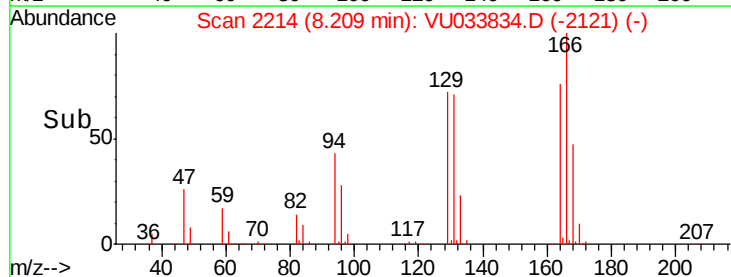
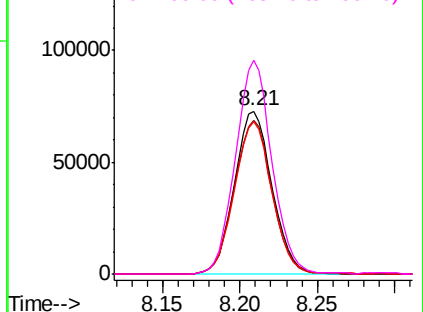


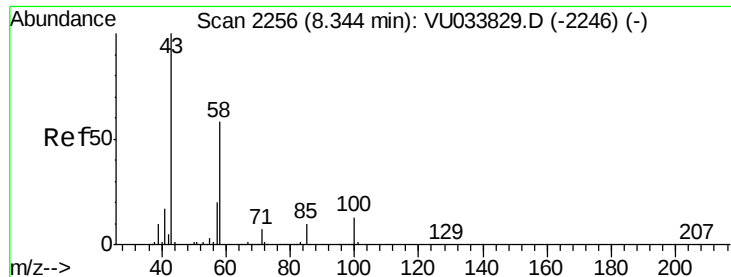
#46
 Tetrachloroethene
 Concen: 49.426 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Tgt Ion:	164	Resp:	122662
Ion	Ratio	Lower	Upper
164	100		
129	94.6	64.4	119.6
131	93.3	63.8	118.4
166	131.3	90.9	168.7



Abundance Ion 164.00 (163.70 to 164.70): VU033834.D (-2214) (-)

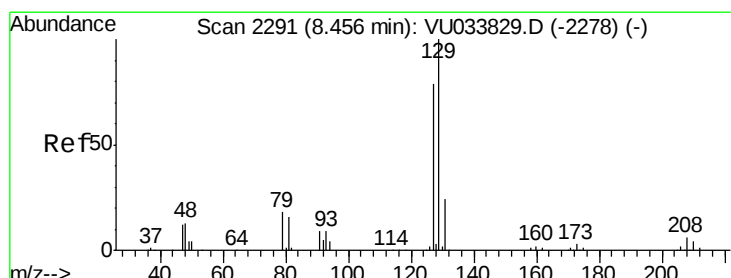
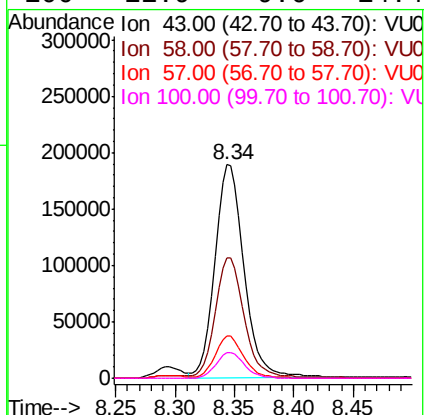
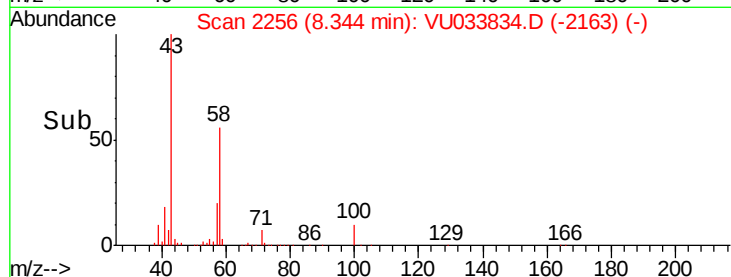
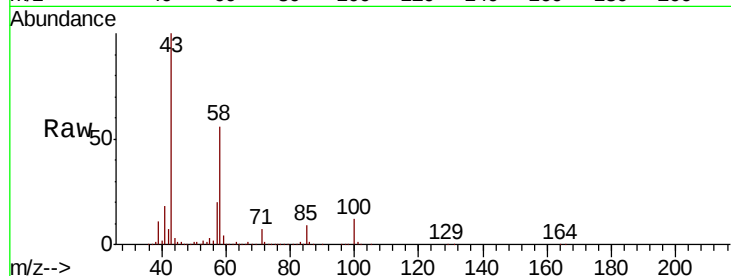




#48
2-Hexanone
Concen: 109.258 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

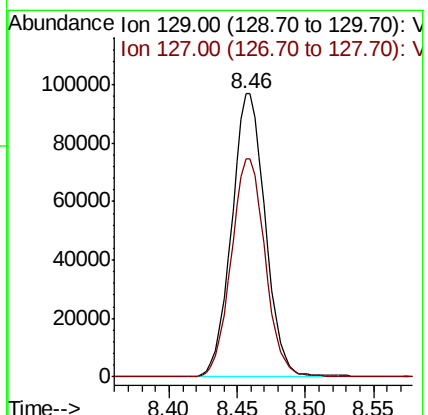
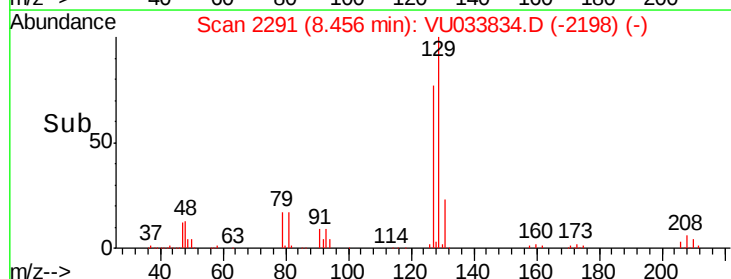
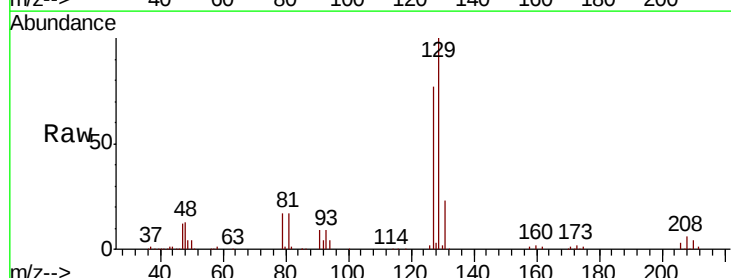
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

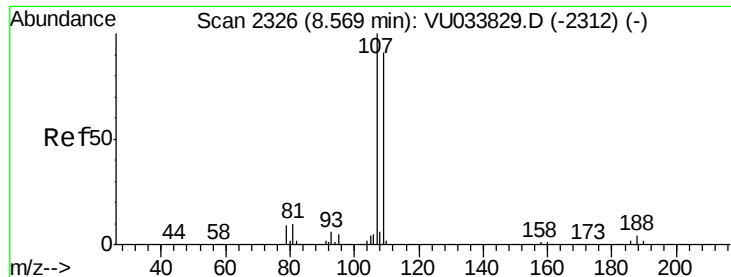
Tgt Ion:	43	Resp:	319425
Ion	Ratio	Lower	Upper
43	100		
58	56.7	45.0	67.4
57	19.2	15.4	23.0
100	11.9	9.6	14.4



#49
Dibromochloromethane
Concen: 49.224 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

Tgt Ion:	129	Resp:	165699
Ion	Ratio	Lower	Upper
129	100		
127	76.9	53.4	99.2

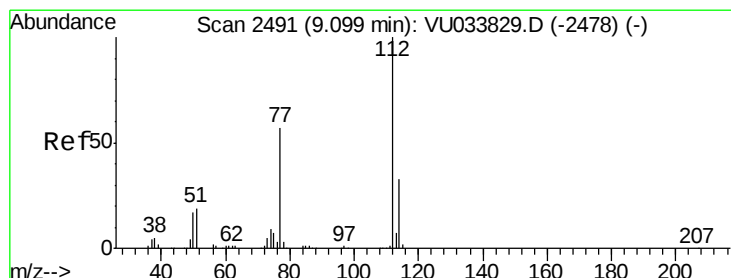
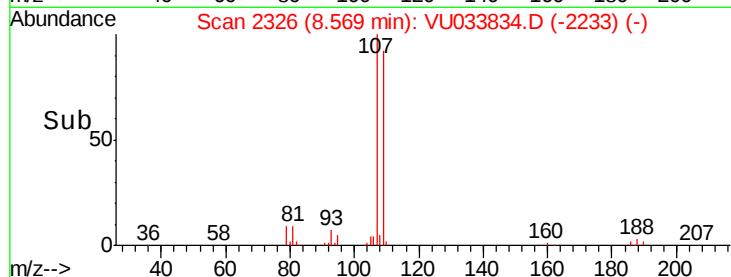
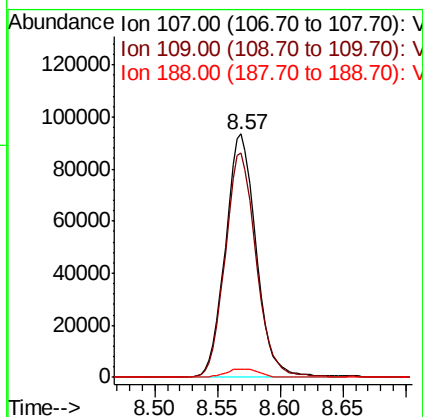
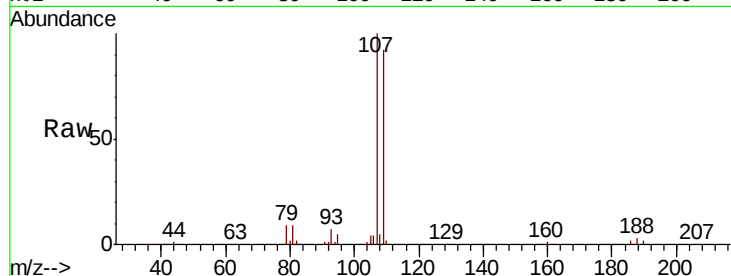




#50
1,2-Dibromoethane
Concen: 50.247 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

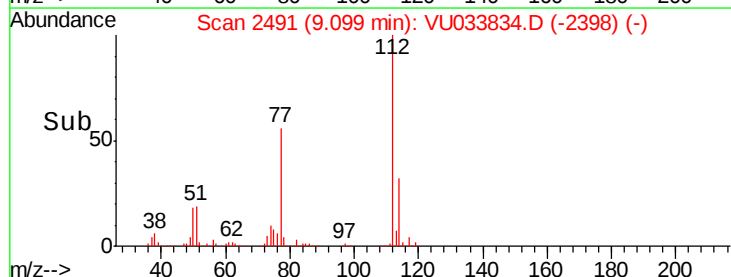
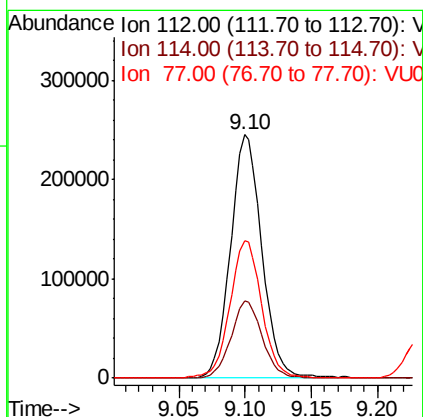
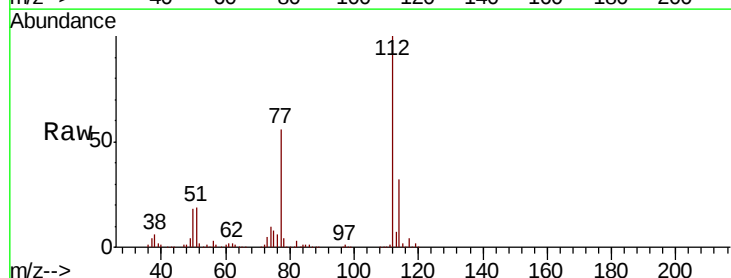
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

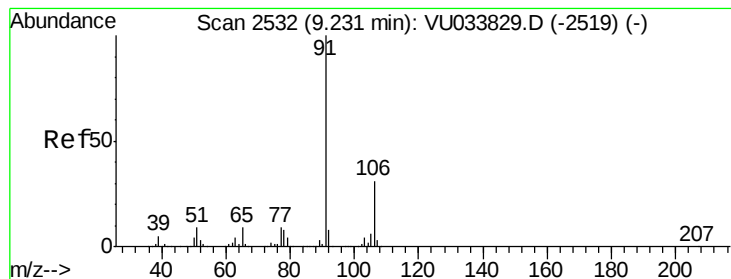
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.4	64.8	120.3
188	3.5	3.1	4.7



#51
Chlorobenzene
Concen: 49.635 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033834.D
Acq: 16 Aug 2019 14:33

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.5	41.9
77	56.5	45.4	68.0





#52

Ethylbenzene

Concen: 51.245 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

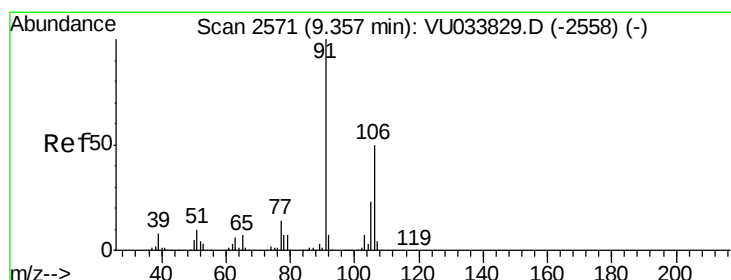
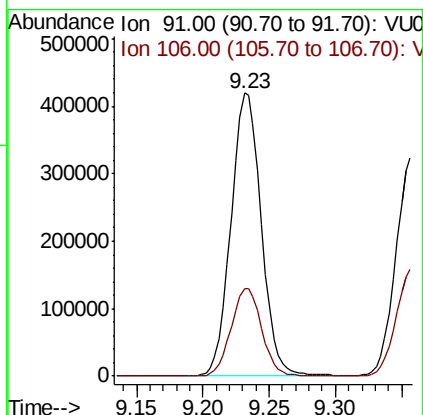
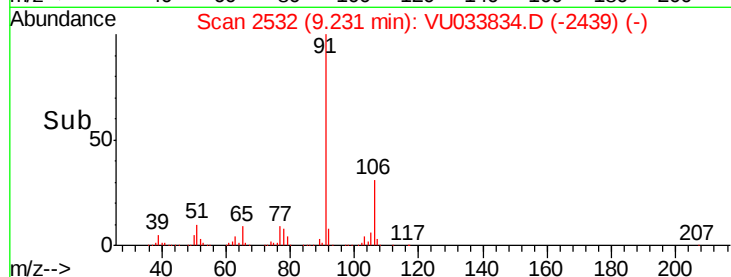
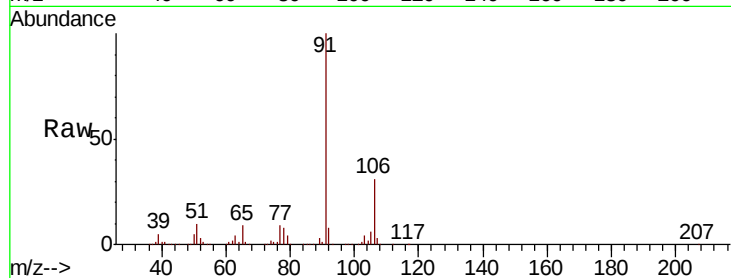
VSTD05046

Tgt Ion: 91 Resp: 665739

Ion Ratio Lower Upper

91 100

106 31.0 21.8 40.6



#53

m,p-Xylene

Concen: 52.289 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033834.D

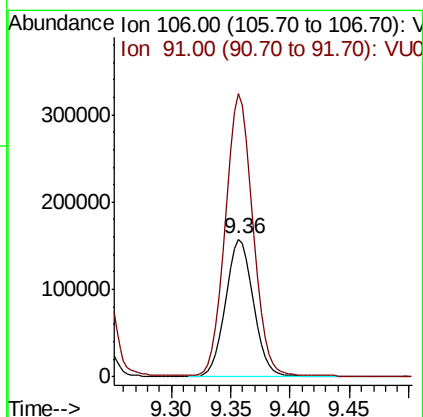
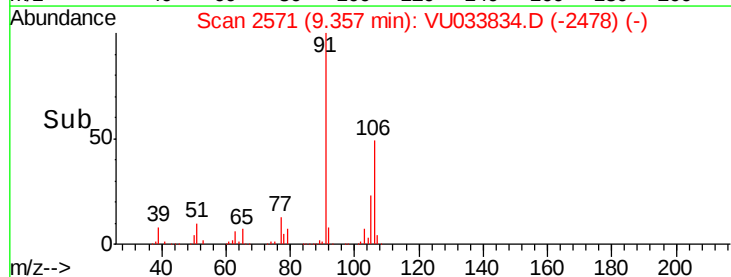
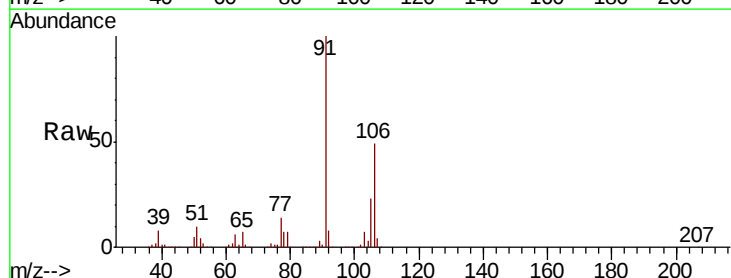
Acq: 16 Aug 2019 14:33

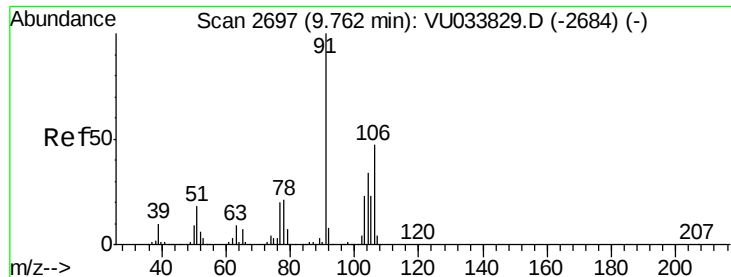
Tgt Ion: 106 Resp: 254274

Ion Ratio Lower Upper

106 100

91 205.7 140.9 261.7





#54

o-xylene

Concen: 52.463 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

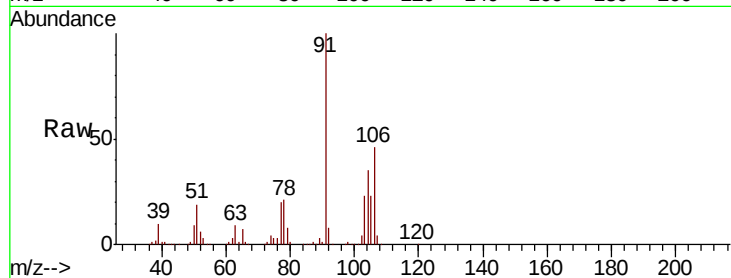
VSTD05046

Tgt Ion:106 Resp: 247205

Ion Ratio Lower Upper

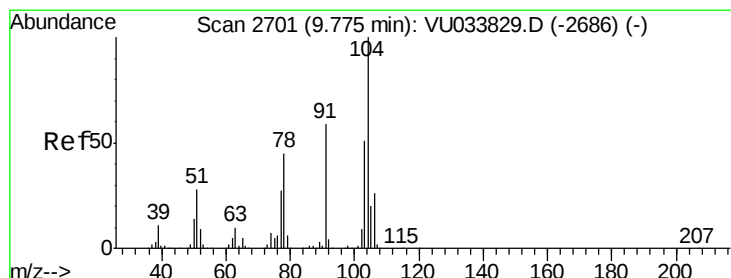
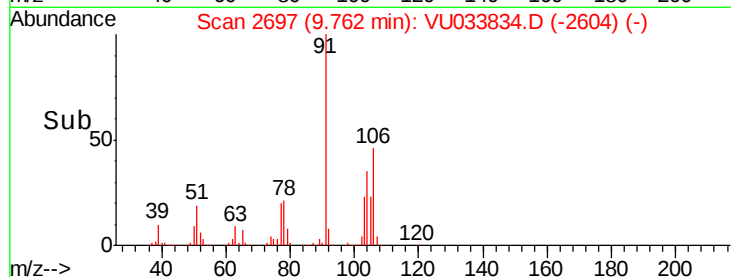
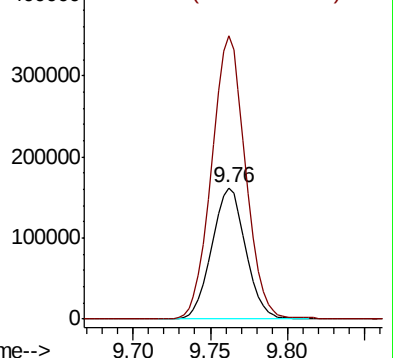
106 100

91 215.6 147.8 274.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.959 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033834.D

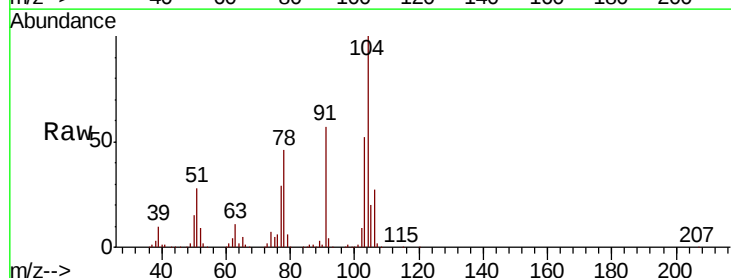
Acq: 16 Aug 2019 14:33

Tgt Ion:104 Resp: 435645

Ion Ratio Lower Upper

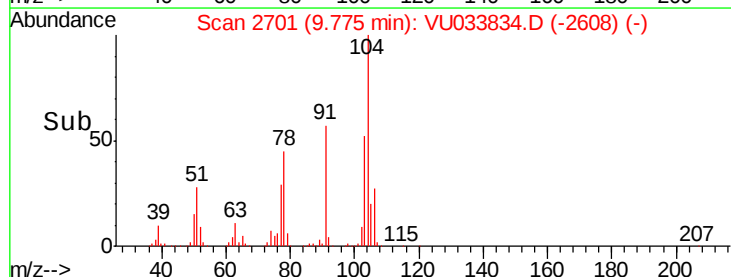
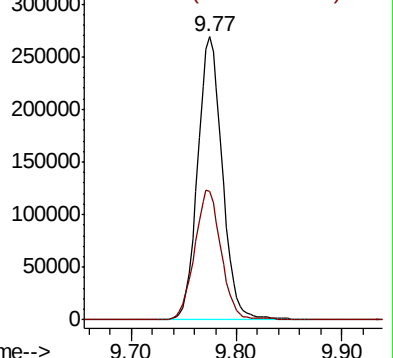
104 100

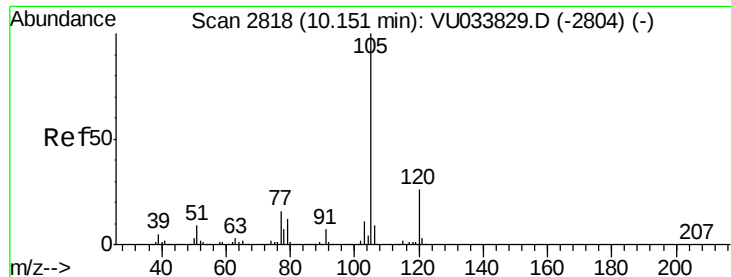
78 45.5 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.596 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

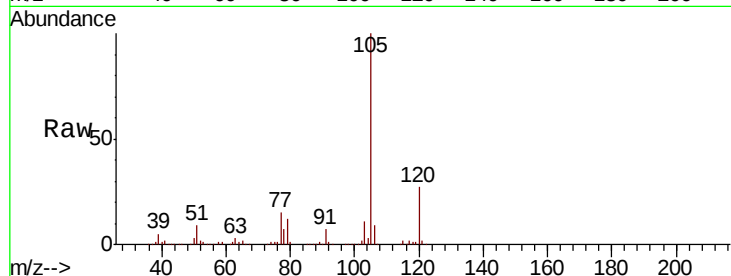
Tgt Ion: 105 Resp: 647999

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.0

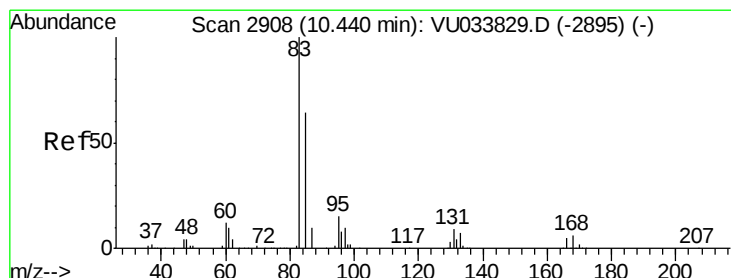
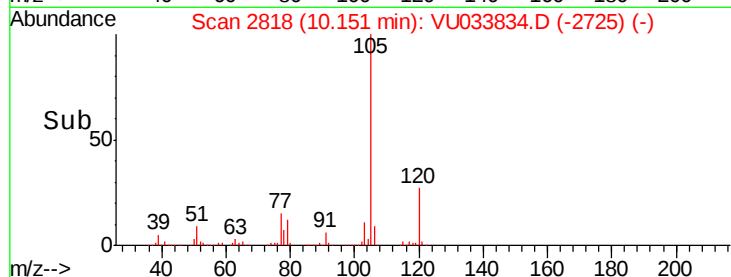
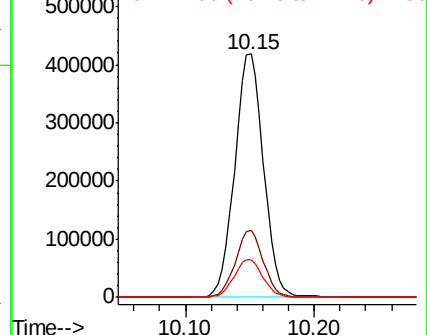
77 15.7 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.275 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

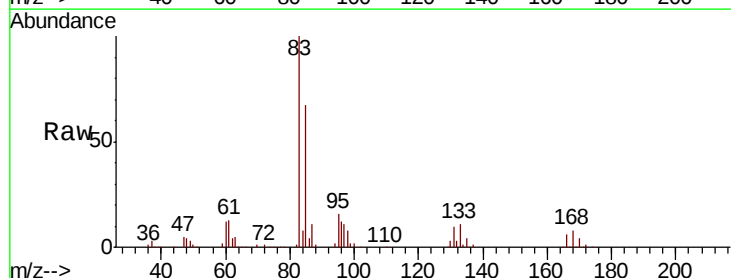
Tgt Ion: 83 Resp: 237760

Ion Ratio Lower Upper

83 100

85 66.6 44.6 82.8

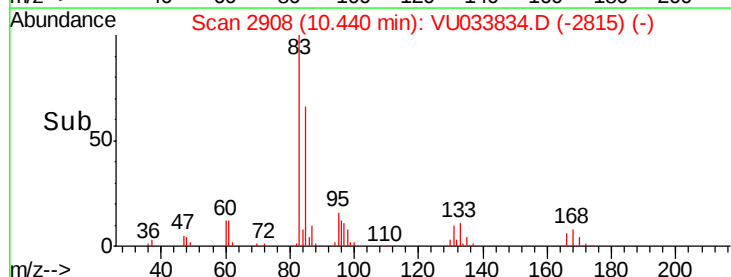
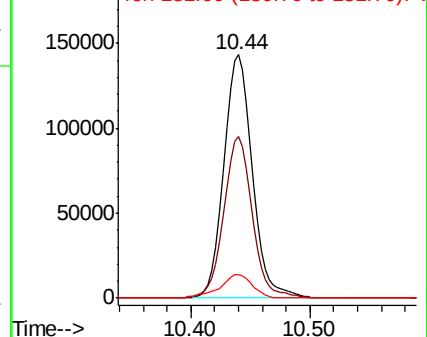
131 9.9 7.8 11.6

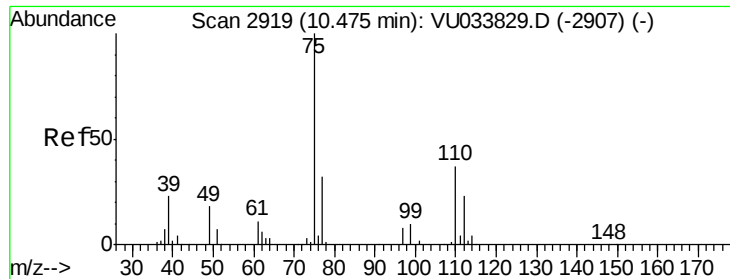


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.388 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

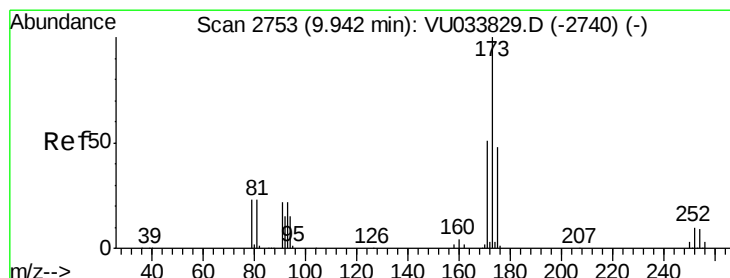
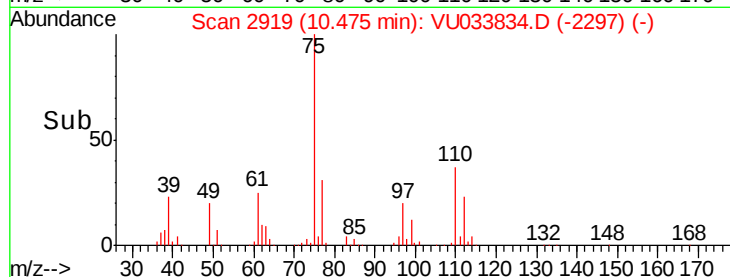
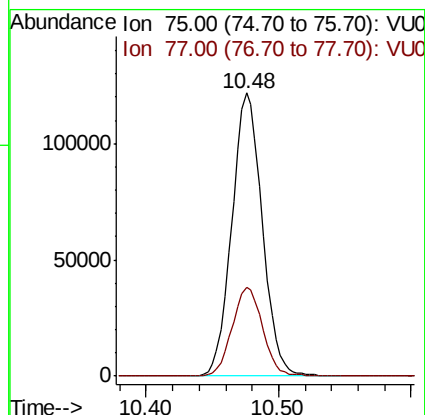
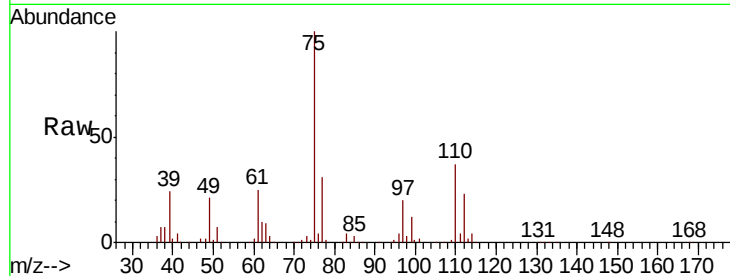
VSTD05046

Tgt Ion: 75 Resp: 193853

Ion Ratio Lower Upper

75 100

77 31.5 26.0 39.0



#61

Bromoform

Concen: 48.200 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

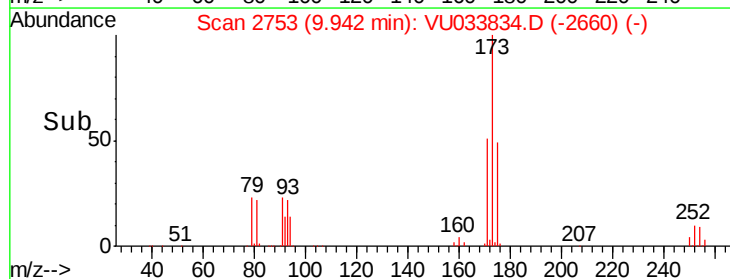
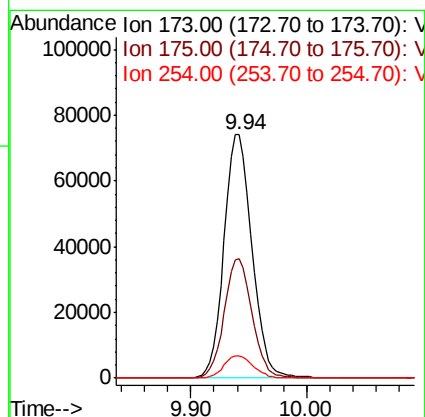
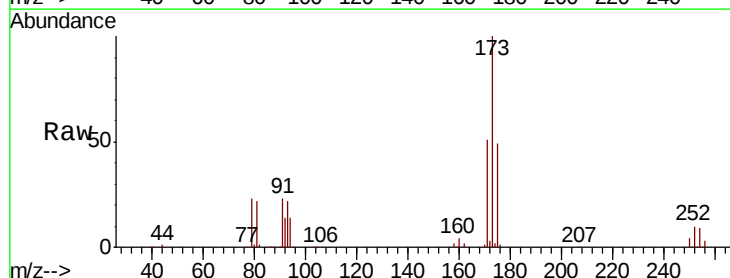
Tgt Ion: 173 Resp: 123587

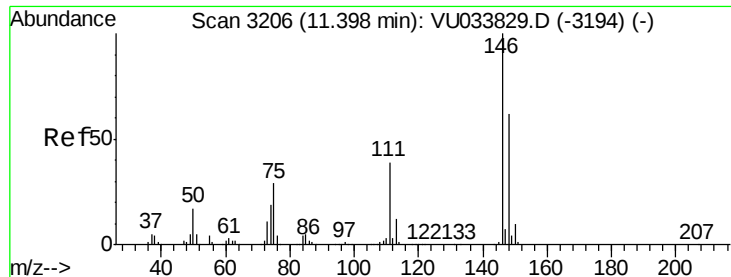
Ion Ratio Lower Upper

173 100

175 48.7 38.8 58.2

254 9.4 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 49.096 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

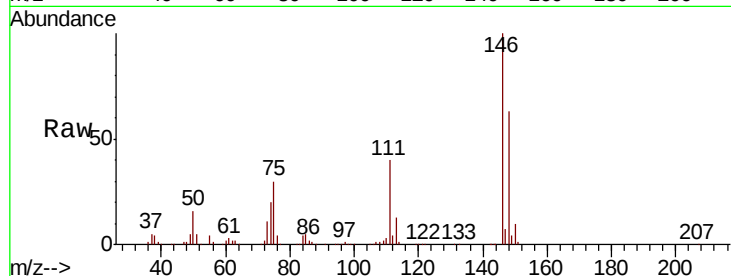
Tgt Ion:146 Resp: 317180

Ion Ratio Lower Upper

146 100

111 40.0 28.1 52.1

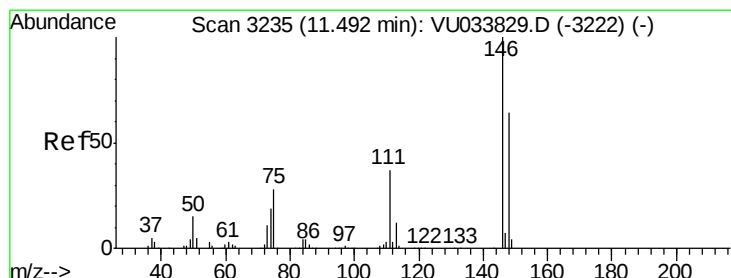
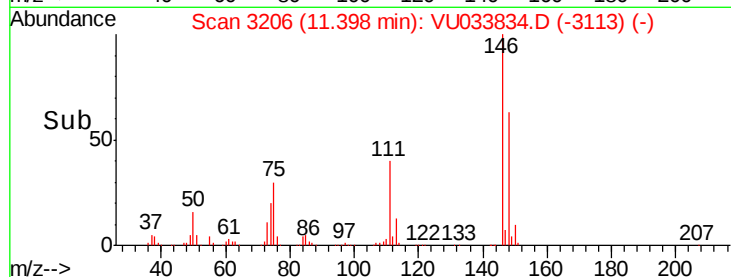
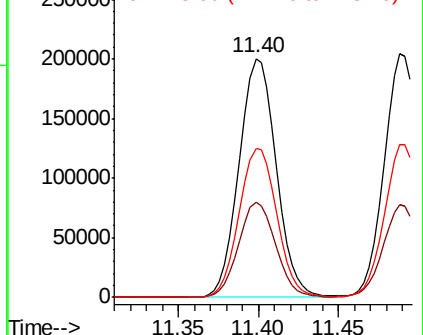
148 62.7 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.558 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

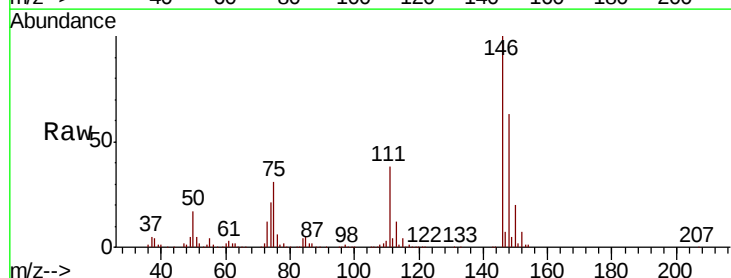
Tgt Ion:146 Resp: 324760

Ion Ratio Lower Upper

146 100

111 38.0 27.0 50.2

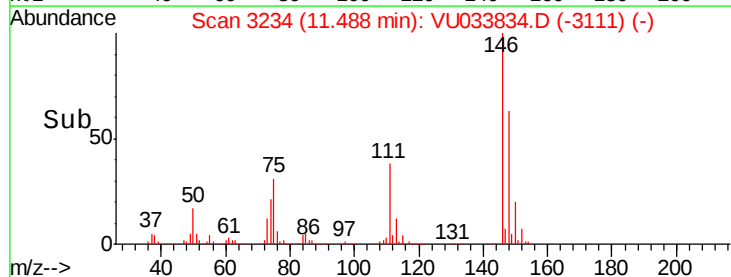
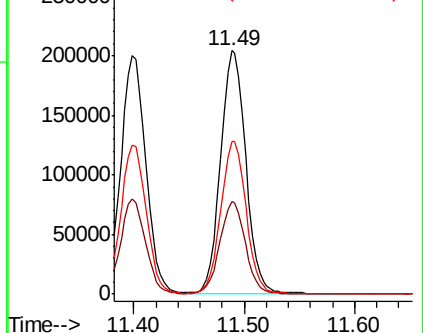
148 62.6 44.5 82.7

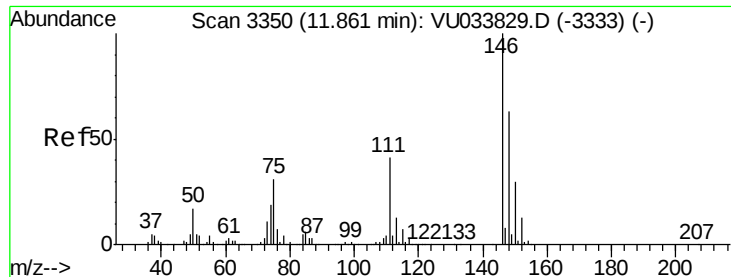


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

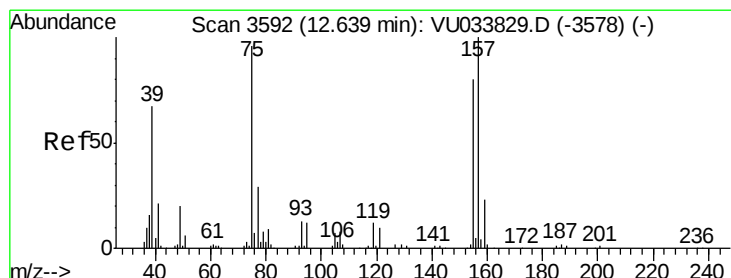
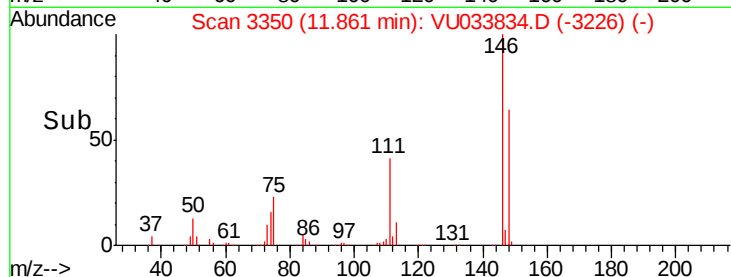
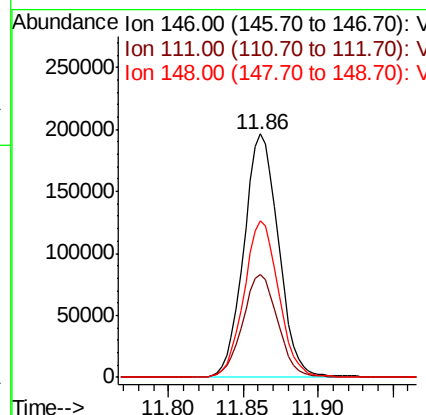
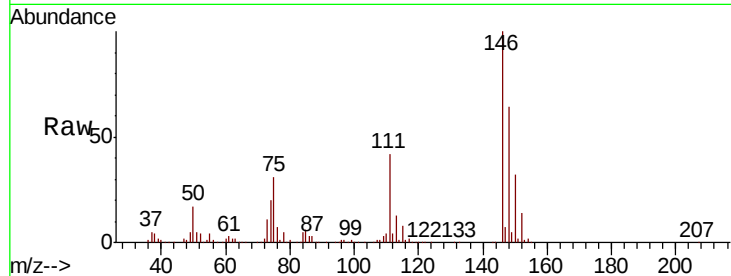




#65
 1,2-Dichlorobenzene
 Concen: 48.828 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

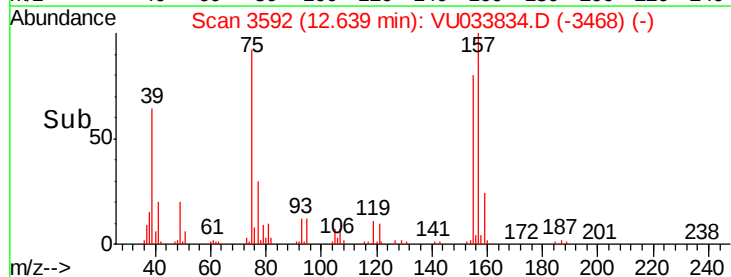
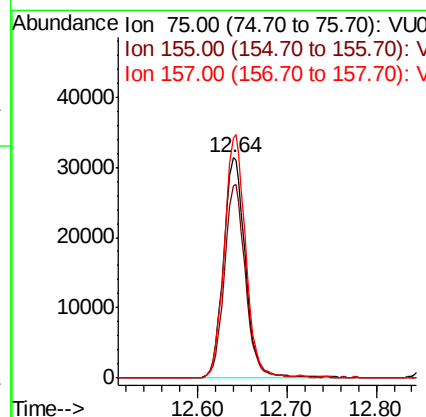
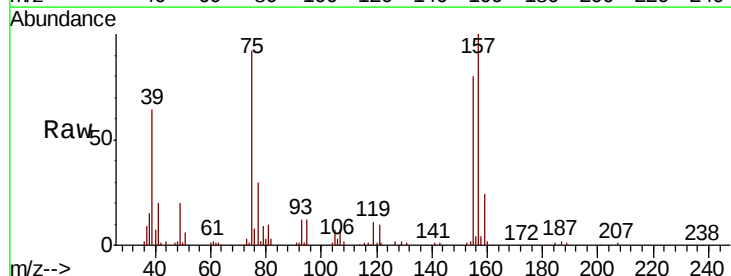
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05046

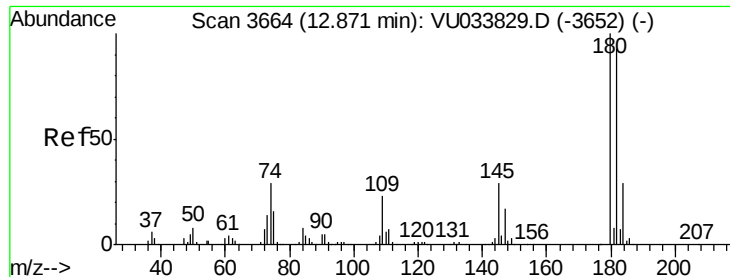
Tgt Ion: 146 Resp: 316217
 Ion Ratio Lower Upper
 146 100
 111 42.1 33.8 50.6
 148 64.1 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.668 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Tgt Ion: 75 Resp: 53482
 Ion Ratio Lower Upper
 75 100
 155 87.2 67.5 101.3
 157 109.1 87.7 131.5

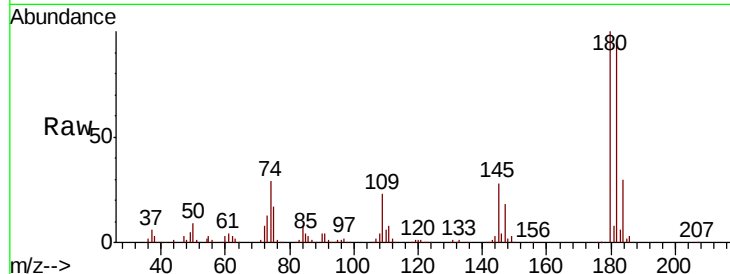




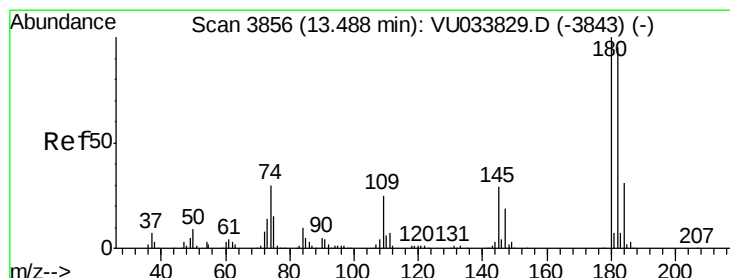
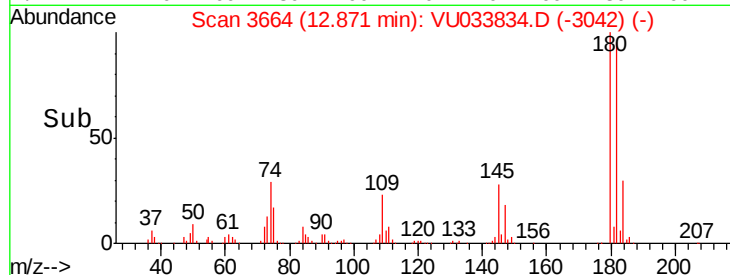
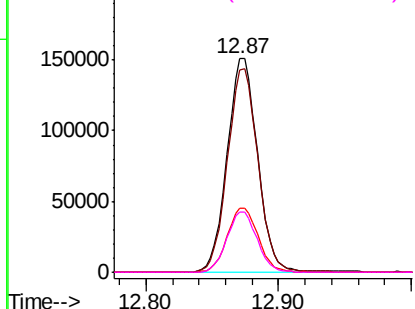
#67
 1,3,5-Trichlorobenzene
 Concen: 48.435 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	180	Resp:	241365
Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.8	113.8
184	30.4	23.8	35.8
145	28.1	22.9	34.3

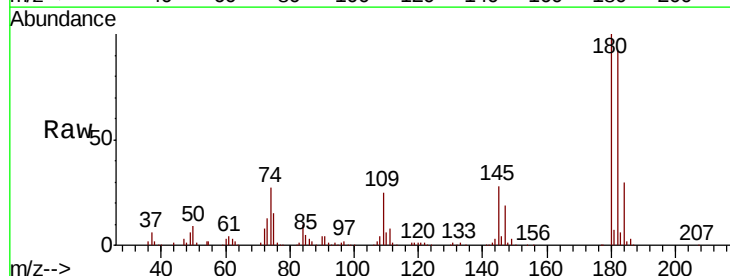


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

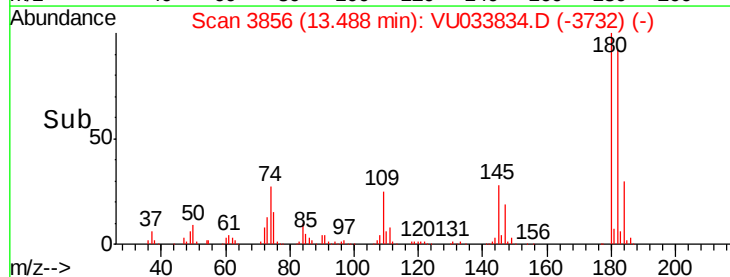
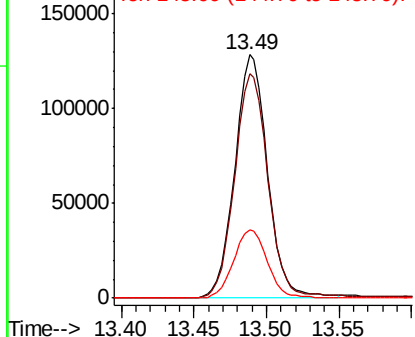


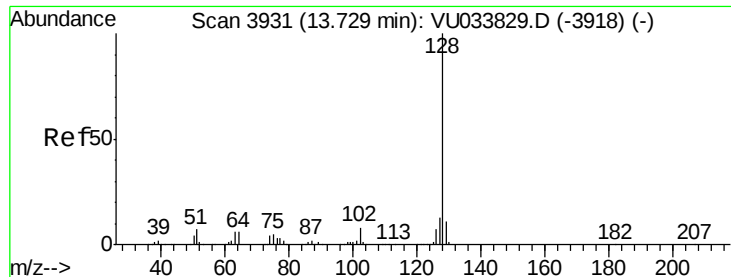
#68
 1,2,4-trichlorobenzene
 Concen: 49.421 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033834.D
 Acq: 16 Aug 2019 14:33

Tgt Ion:	180	Resp:	201662
Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.2	114.2
145	28.9	23.8	35.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 52.136 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

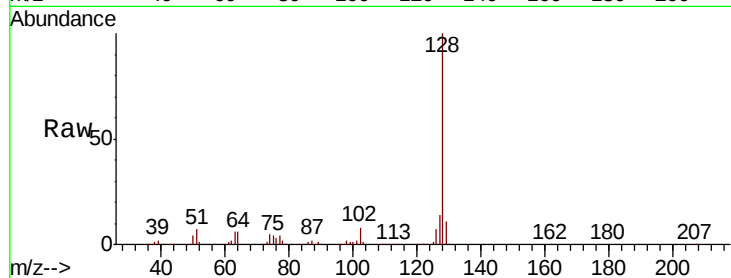
Tgt Ion:128 Resp: 587166

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

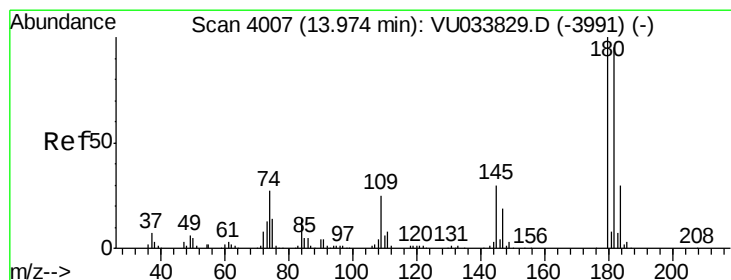
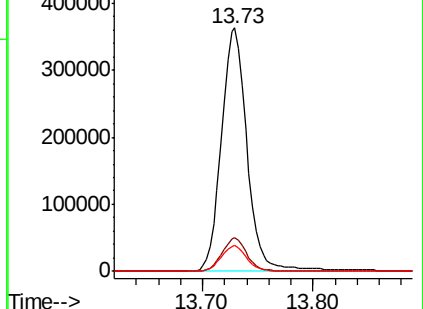
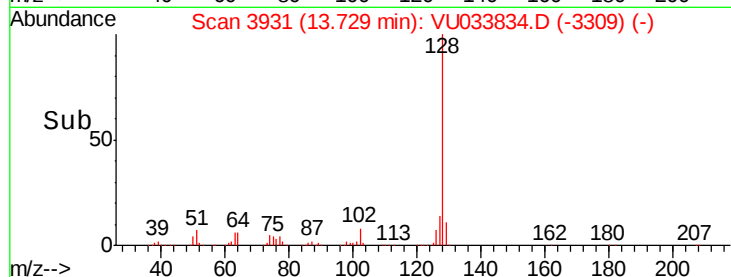
129 10.5 8.6 12.8



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



#70

1,2,3-Trichlorobenzene

Concen: 49.989 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033834.D

Acq: 16 Aug 2019 14:33

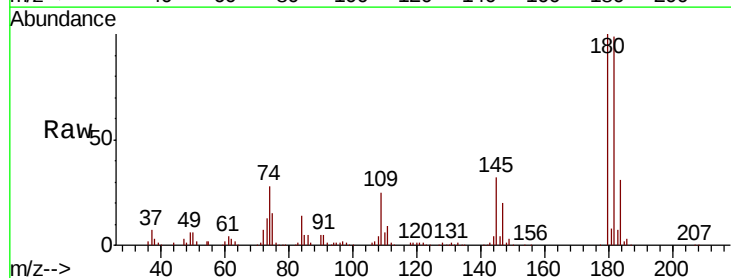
Tgt Ion:180 Resp: 211706

Ion Ratio Lower Upper

180 100

182 97.0 75.9 113.9

145 31.9 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

