

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080718\
 Data File : VU025953.D
 Acq On : 07 Aug 2018 21:16
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Quant Time: Aug 08 04:23:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080718WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 07 12:44:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	329595	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	304466	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	153968	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	91679	50.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.38%
7) Chloroethane-d5	1.67	69	72577	52.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.98%
11) 1,1-Dichloroethene-d2	2.27	63	176763	49.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.94%
21) 2-Butanone-d5	4.18	46	141911	112.92	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.92%
24) Chloroform-d	4.65	84	194960	55.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.28%
26) 1,2-Dichloroethane-d4	5.31	65	127338	54.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.12%
32) Benzene-d6	5.35	84	369355	55.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.06%
36) 1,2-Dichloropropane-d6	6.33	67	116242	55.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	111.42%
41) Toluene-d8	7.57	98	355535	54.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.20%
43) trans-1,3-Dichloropropene-	7.85	79	57501	52.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.10%
47) 2-Hexanone-d5	8.31	63	101340	116.71	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.71%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	166863	57.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	115.46%
64) 1,2-Dichlorobenzene-d4	11.86	152	140982	55.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.86%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	130098	51.891 ug/L	98
3) Chloromethane	1.33	50	121204	57.458 ug/L	99
5) Vinyl chloride	1.40	62	115704	50.857 ug/L	97
6) Bromomethane	1.62	94	57765	57.332 ug/L	98
8) Chloroethane	1.69	64	72287	54.872 ug/L	97
9) Trichlorofluoromethane	1.88	101	170415	51.995 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	91577	50.550 ug/L	99
12) 1,1-Dichloroethene	2.28	96	82509	49.595 ug/L	88
13) Acetone	2.32	43	106961	71.899 ug/L	100
14) Carbon disulfide	2.48	76	295431	49.842 ug/L	99
15) Methyl Acetate	2.62	43	123760	54.480 ug/L	99
16) Methylene chloride	2.70	84	113173	52.200 ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	103571	50.488 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	351163	53.842 ug/L	99
19) 1,1-Dichloroethane	3.45	63	201916	54.269 ug/L	100
20) cis-1,2-Dichloroethene	4.23	96	119862	52.297 ug/L	99
22) 2-Butanone	4.27	43	175856	94.549 ug/L	100

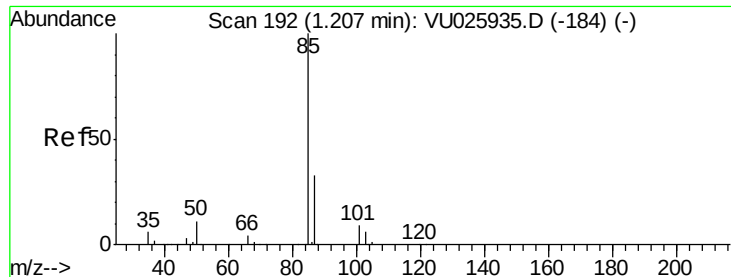
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080718\
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 QLast Update : Tue Aug 07 12:44:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	63396	52.684	ug/L	97
25) Chloroform	4.68	83	209466	53.143	ug/L	98
27) 1,2-Dichloroethane	5.41	62	171781	54.654	ug/L	100
29) Cyclohexane	5.00	56	171881	53.569	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	191319	55.204	ug/L	98
31) Carbon tetrachloride	5.14	117	175397	56.595	ug/L	100
33) Benzene	5.39	78	440246	55.318	ug/L	100
34) Trichloroethene	6.19	95	113413	51.208	ug/L	97
35) Methylcyclohexane	6.42	83	180268	53.776	ug/L	98
37) 1,2-Dichloropropane	6.44	63	119286	56.101	ug/L	100
38) Bromodichloromethane	6.76	83	159600	55.219	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	182098	52.581	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	330767	114.086	ug/L	99
42) Toluene	7.64	91	472177	54.366	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	171691	52.451	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	113553	55.911	ug/L	99
46) Tetrachloroethene	8.23	164	97742	51.348	ug/L	100
48) 2-Hexanone	8.36	43	258258	110.412	ug/L	99
49) Dibromochloromethane	8.48	129	137451	55.098	ug/L	98
50) 1,2-Dibromoethane	8.59	107	124599	54.691	ug/L	98
51) Chlorobenzene	9.12	112	313014	52.632	ug/L	99
52) Ethylbenzene	9.25	91	514380	52.057	ug/L	99
53) m,p-Xylene	9.38	106	200845	51.815	ug/L	99
54) o-xylene	9.78	106	201233	54.520	ug/L	99
55) Styrene	9.80	104	332104	53.400	ug/L	99
56) Isopropylbenzene	10.17	105	522841	53.297	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	189846	55.599	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	153740	56.812	ug/L	98
61) Bromoform	9.96	173	102351	58.212	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	238086	51.685	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	243486	51.882	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	260875	56.480	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	41604	59.271	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	175822	51.799	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	150300	51.020	ug/L	98
69) Naphthalene	13.75	128	455225	52.582	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	154911	51.325	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 51.891 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

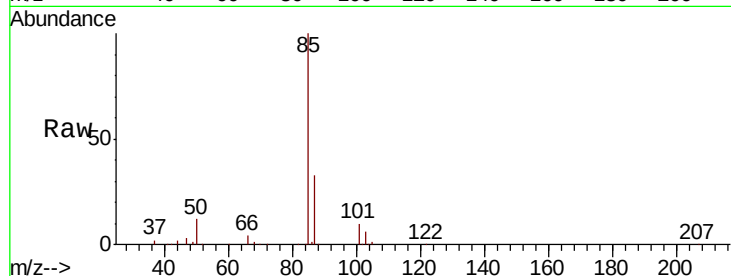
VSTD05046

Tgt Ion: 85 Resp: 130098

Ion Ratio Lower Upper

85 100

87 33.0 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU025953.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU025953.D (-184) (-)

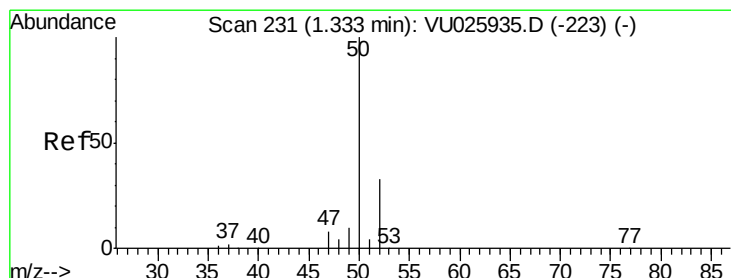
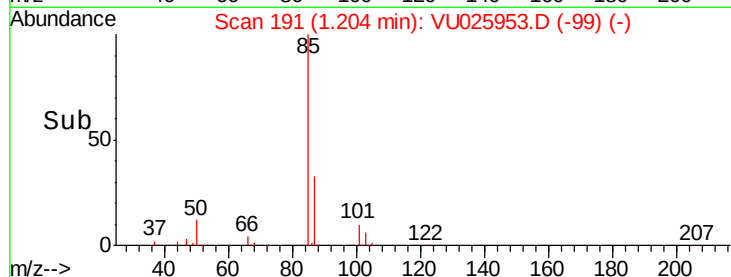
1.20

100000

50000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 57.458 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025953.D

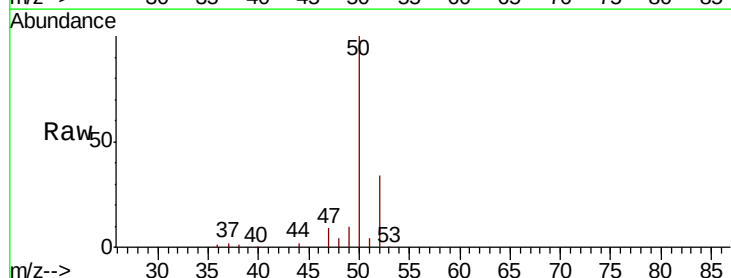
Acq: 07 Aug 2018 21:16

Tgt Ion: 50 Resp: 121204

Ion Ratio Lower Upper

50 100

52 33.6 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU025953.D (-223) (-)

Ion 52.00 (51.70 to 52.70): VU025953.D (-223) (-)

1.33

120000

100000

80000

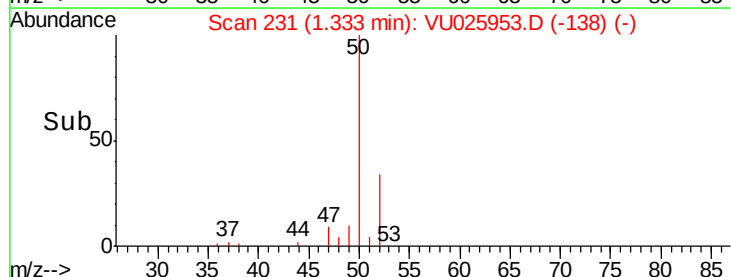
60000

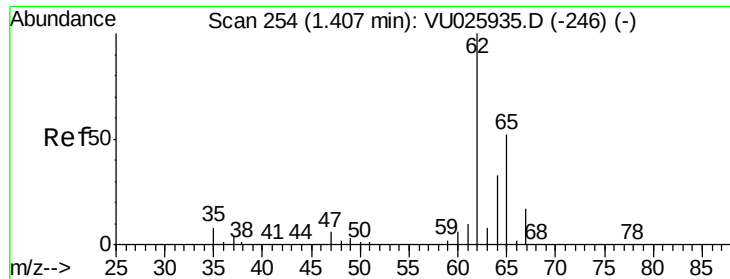
40000

20000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 50.857 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

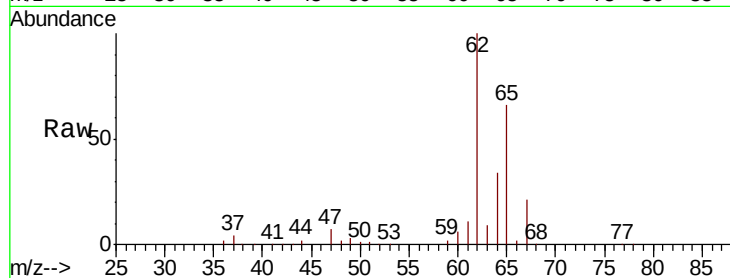
VSTD05046

Tgt Ion: 62 Resp: 115704

Ion Ratio Lower Upper

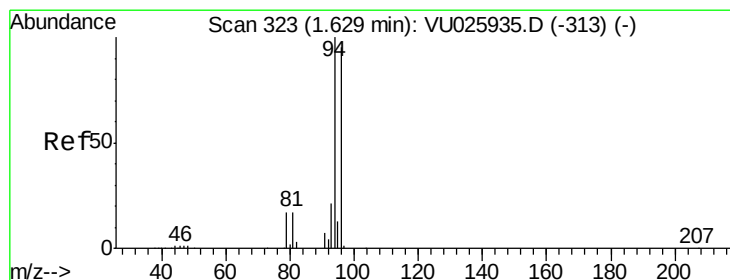
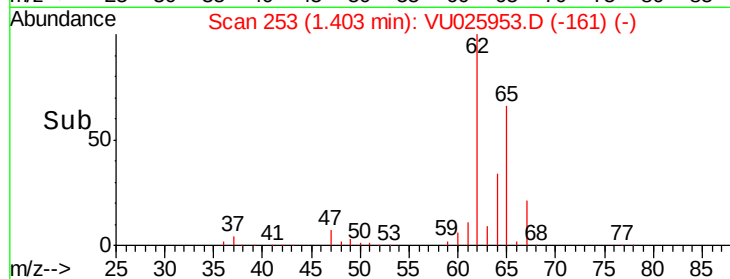
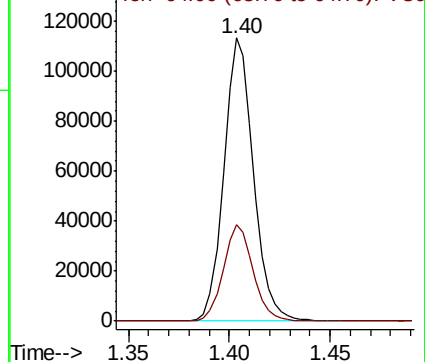
62 100

64 33.9 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 57.332 ug/L

RT: 1.62 min Scan# 320

Delta R.T. -0.01 min

Lab File: VU025953.D

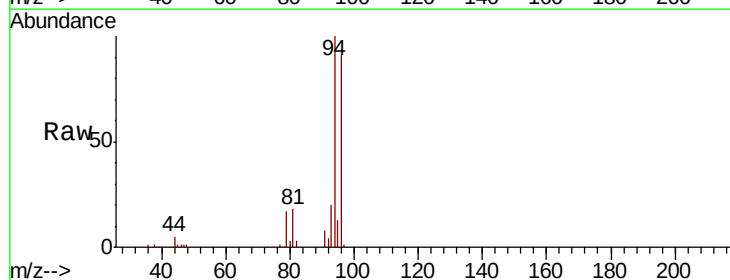
Acq: 07 Aug 2018 21:16

Tgt Ion: 94 Resp: 57765

Ion Ratio Lower Upper

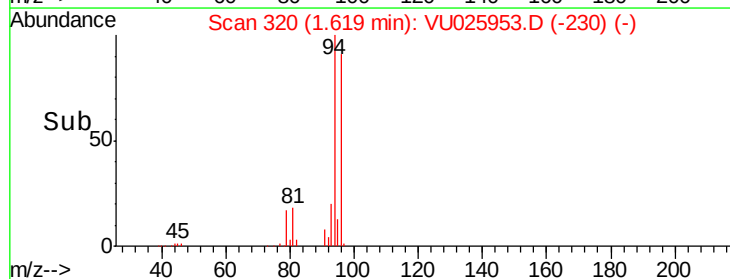
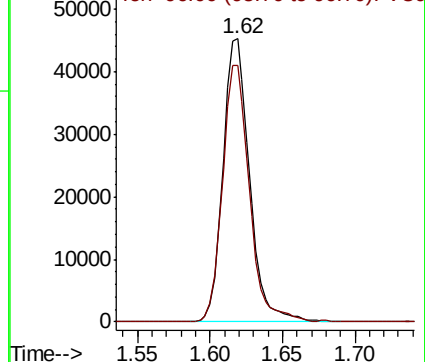
94 100

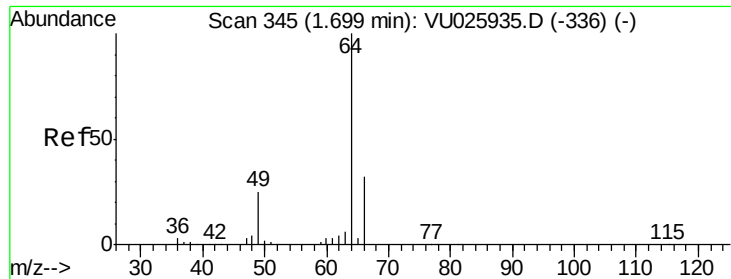
96 90.8 62.4 115.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

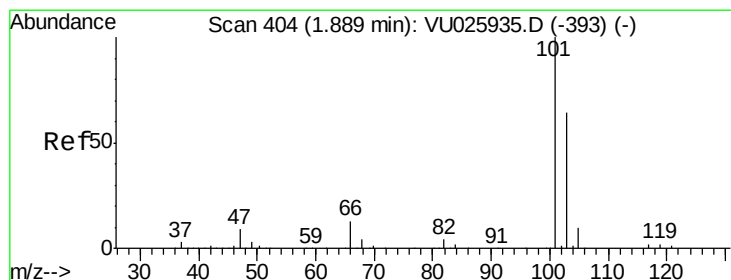
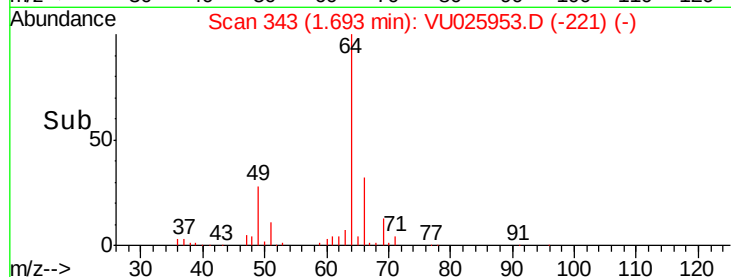
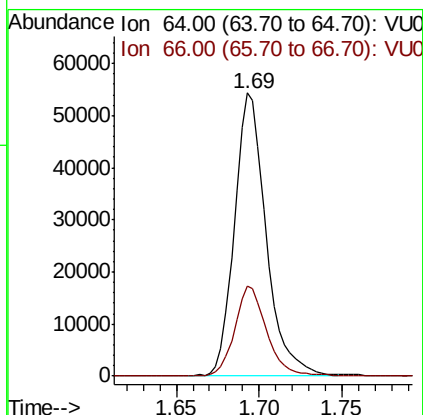
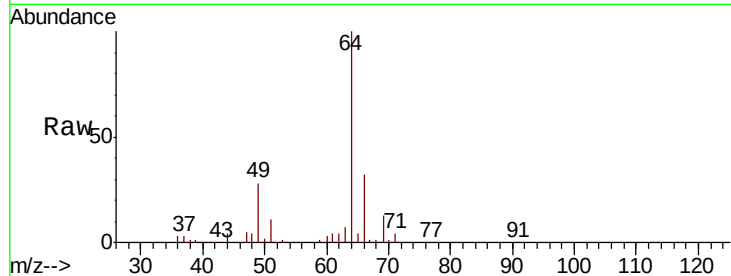




#8
Chloroethane
Concen: 54.872 ug/L
RT: 1.69 min Scan# 343
Delta R.T. -0.01 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

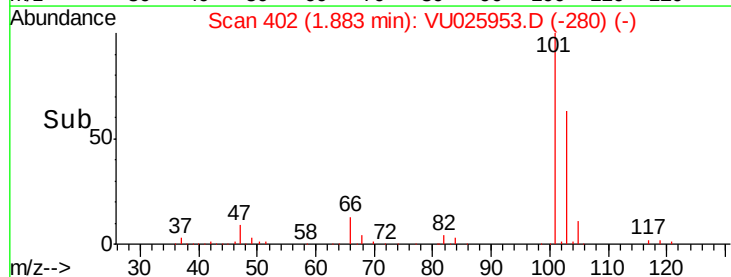
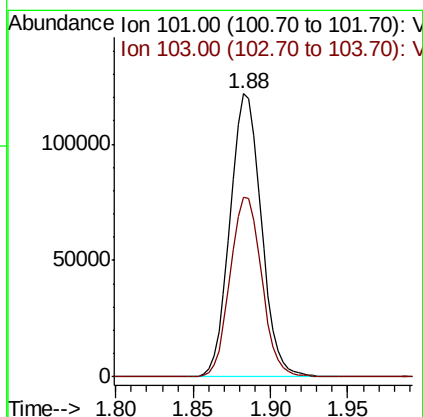
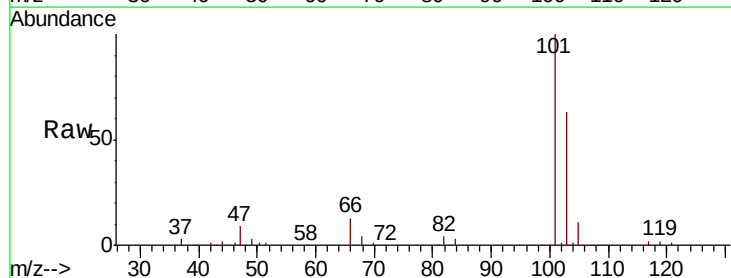
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

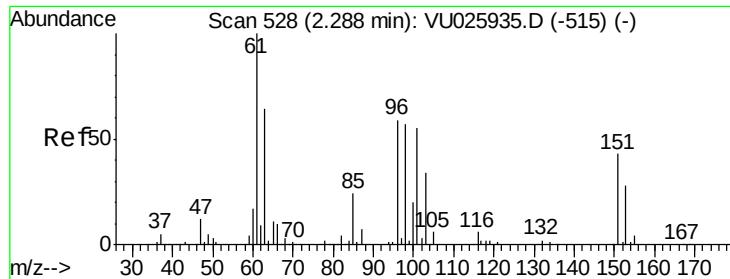
Tgt Ion: 64 Resp: 72287
Ion Ratio Lower Upper
64 100
66 31.7 23.5 43.7



#9
Trichlorofluoromethane
Concen: 51.995 ug/L
RT: 1.88 min Scan# 402
Delta R.T. -0.01 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

Tgt Ion: 101 Resp: 170415
Ion Ratio Lower Upper
101 100
103 64.3 52.0 78.0





#10

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

Concen: 50.550 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

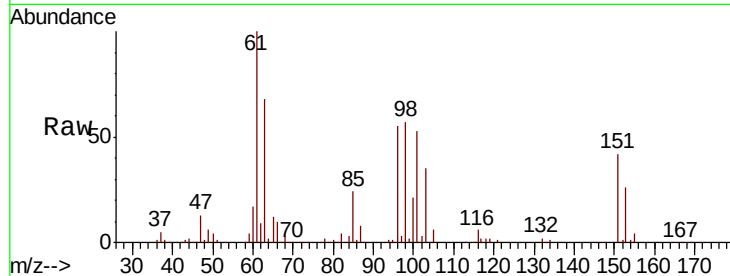
Tgt Ion:101 Resp: 91577

Ion Ratio Lower Upper

101 100

85 44.8 35.5 53.3

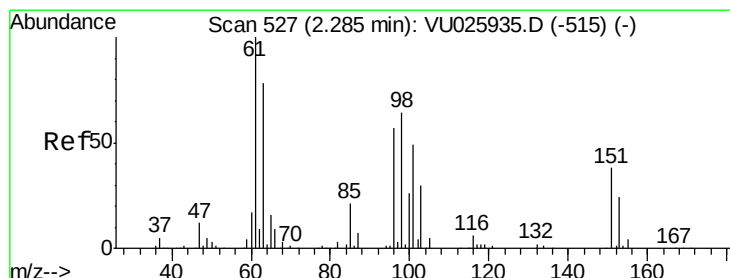
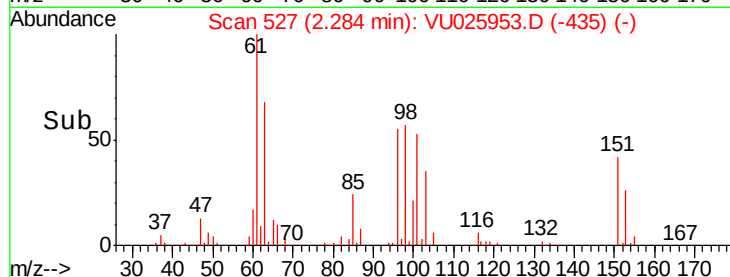
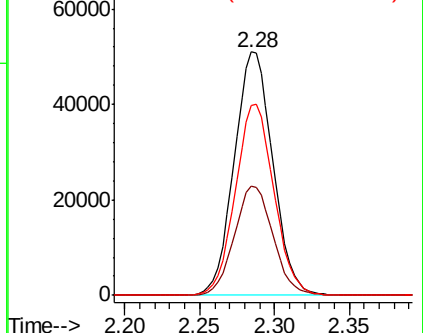
151 78.5 63.5 95.3



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: 49.595 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

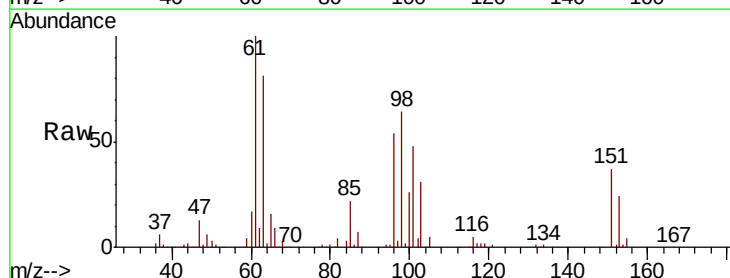
Tgt Ion: 96 Resp: 82509

Ion Ratio Lower Upper

96 100

61 185.9 122.5 227.5

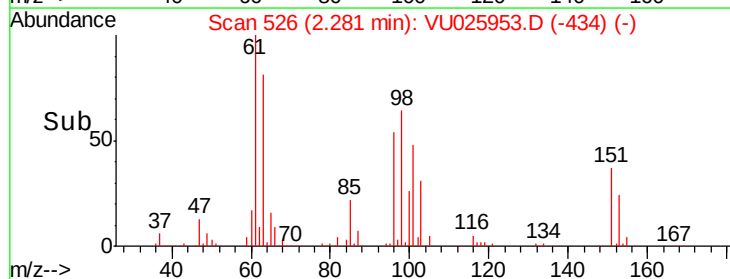
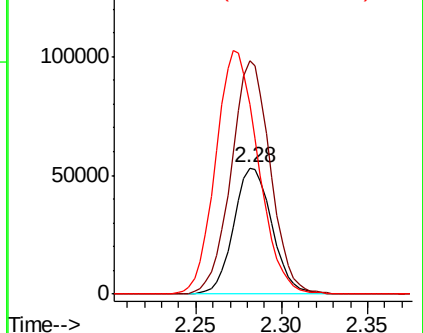
63 151.2 90.9 168.9

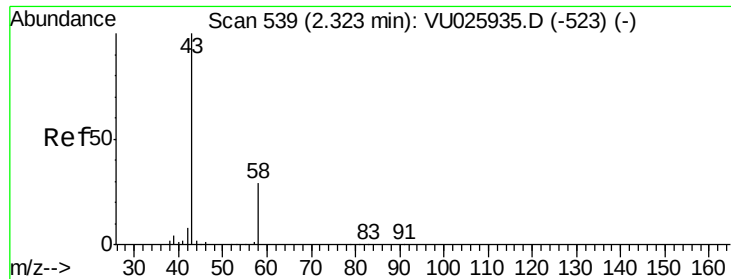


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 71.899 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

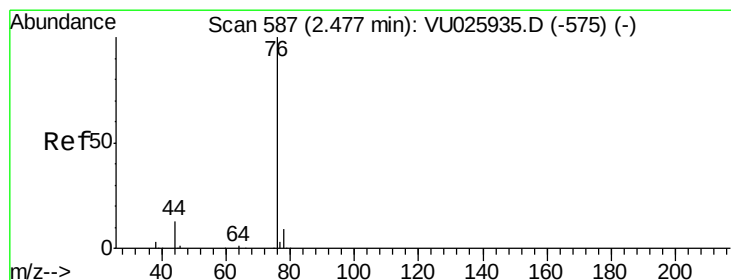
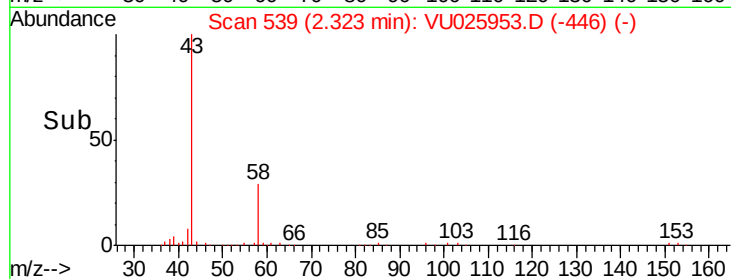
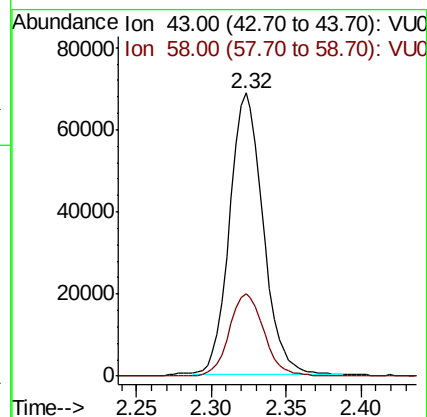
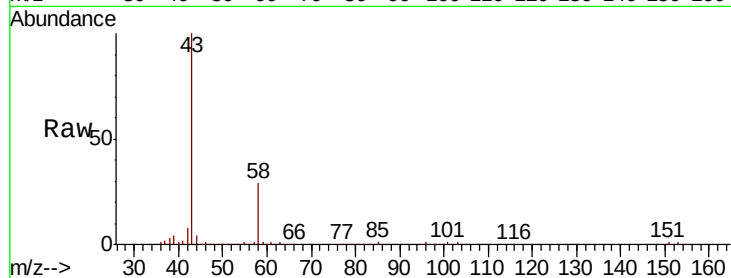
VSTD05046

Tgt Ion: 43 Resp: 106961

Ion Ratio Lower Upper

43 100

58 30.6 0.0 61.2



#14

Carbon disulfide

Concen: 49.842 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU025953.D

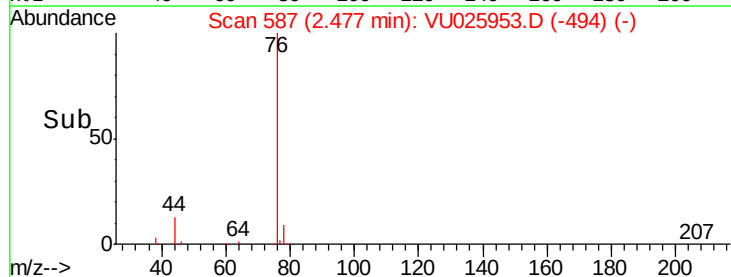
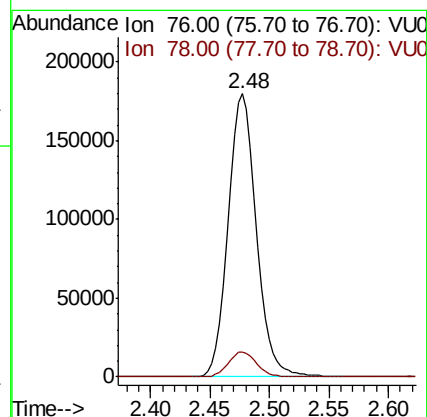
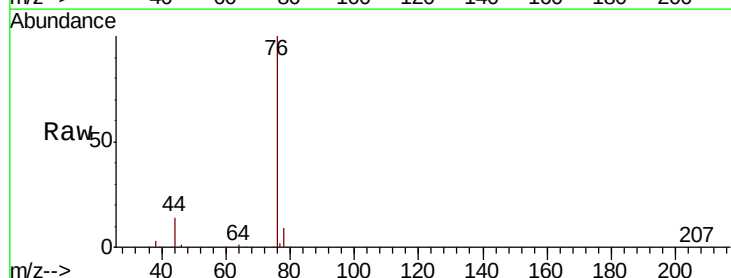
Acq: 07 Aug 2018 21:16

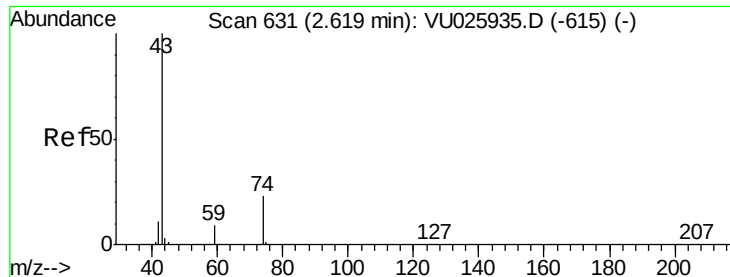
Tgt Ion: 76 Resp: 295431

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

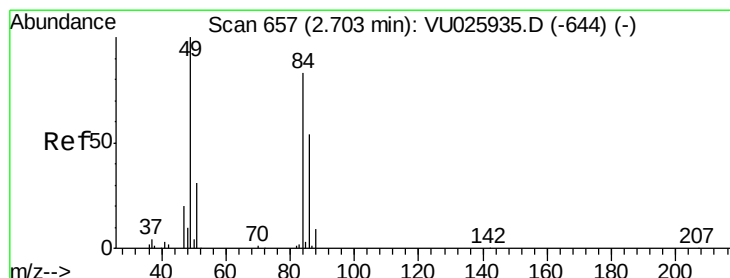
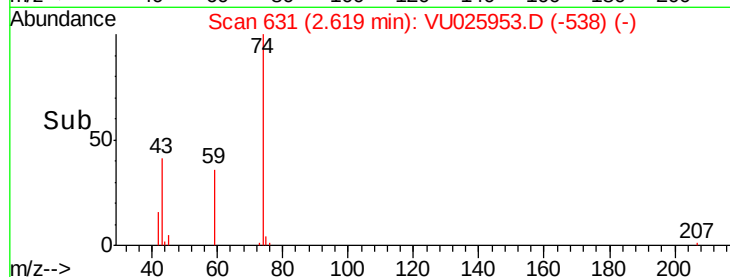
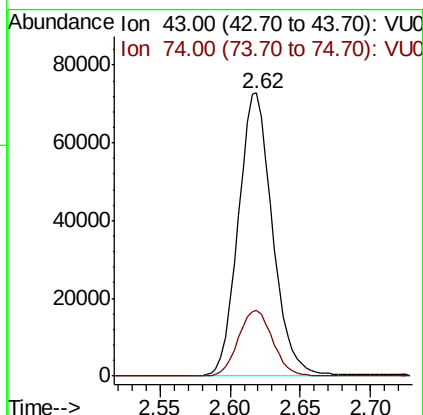
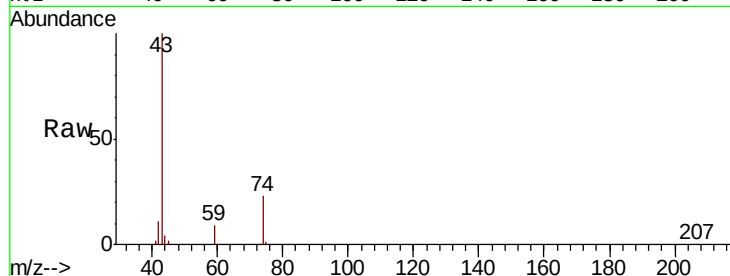




#15
Methyl Acetate
Concen: 54.480 ug/L
RT: 2.62 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

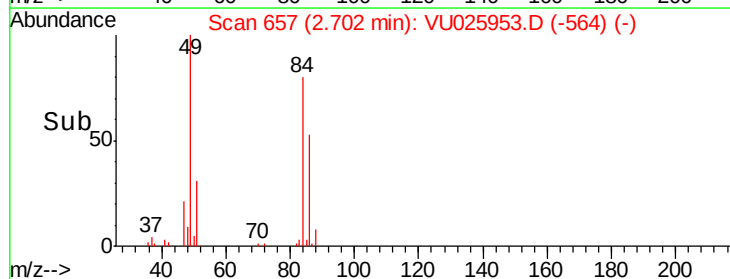
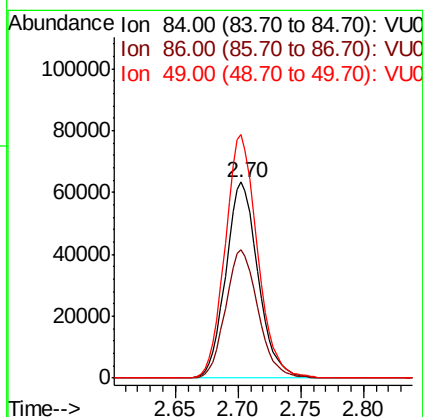
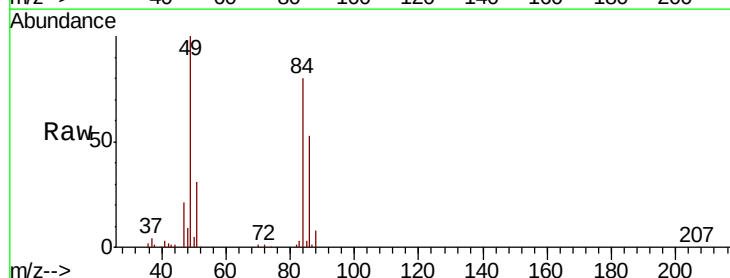
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

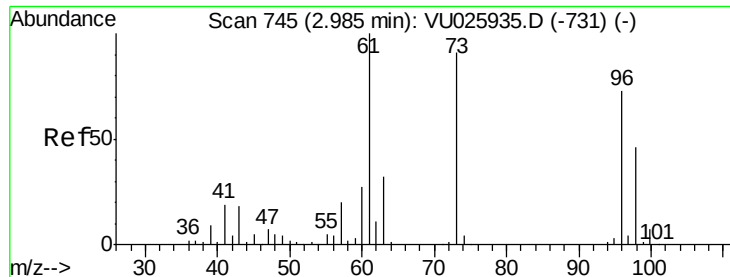
Tgt Ion: 43 Resp: 123760
Ion Ratio Lower Upper
43 100
74 23.5 18.3 27.5



#16
Methylene chloride
Concen: 52.200 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

Tgt Ion: 84 Resp: 113173
Ion Ratio Lower Upper
84 100
86 65.6 45.6 84.6
49 124.3 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 50.488 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

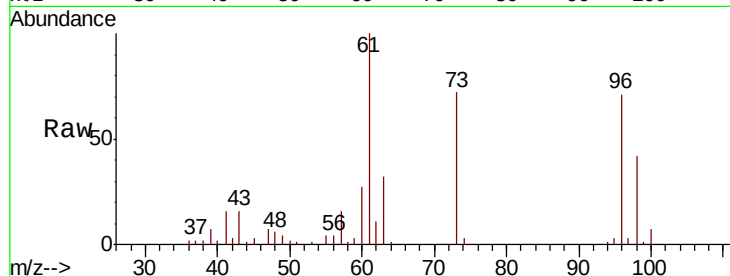
Tgt Ion: 96 Resp: 103571

Ion Ratio Lower Upper

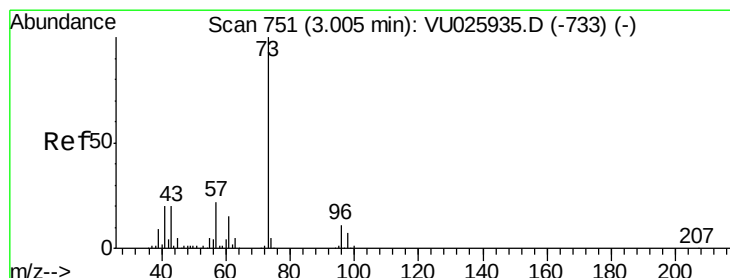
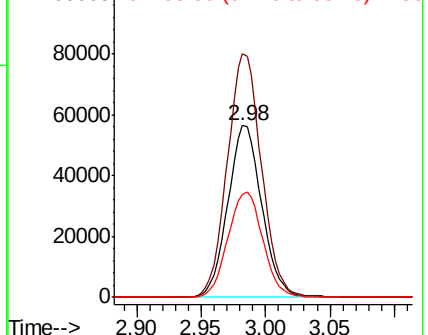
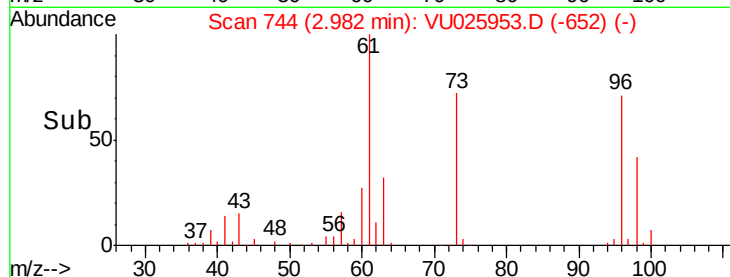
96 100

61 141.7 100.0 185.8

98 59.8 44.7 83.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 53.842 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

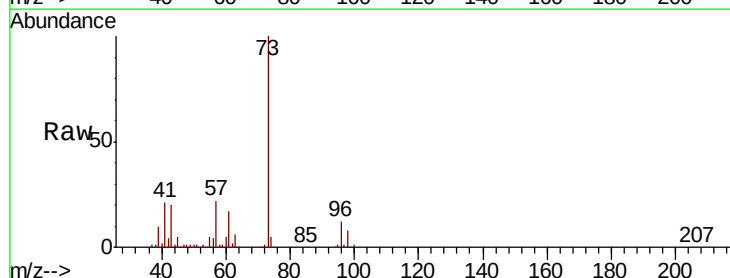
Tgt Ion: 73 Resp: 351163

Ion Ratio Lower Upper

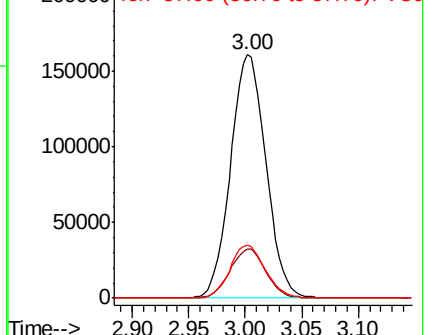
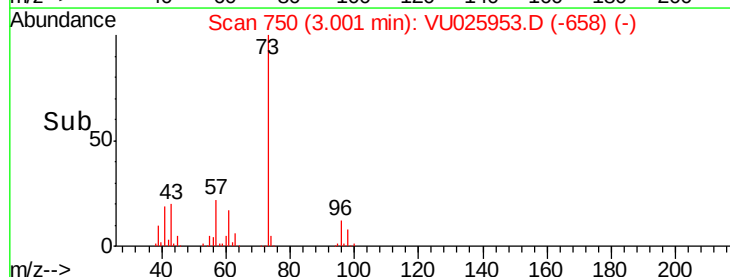
73 100

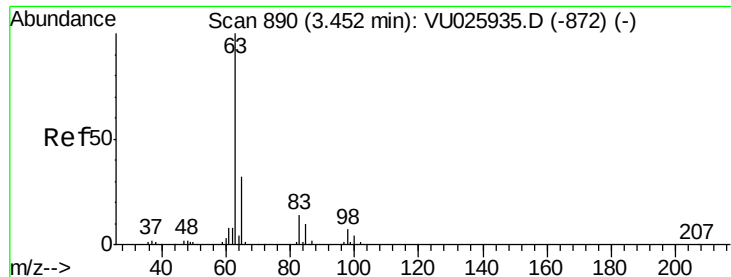
43 20.4 16.2 24.2

57 21.7 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

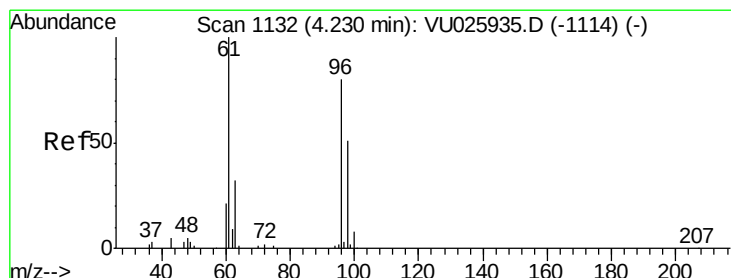
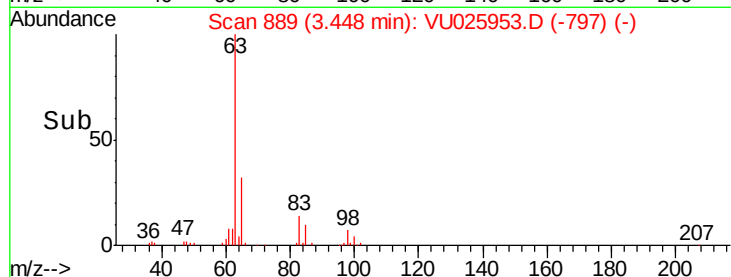
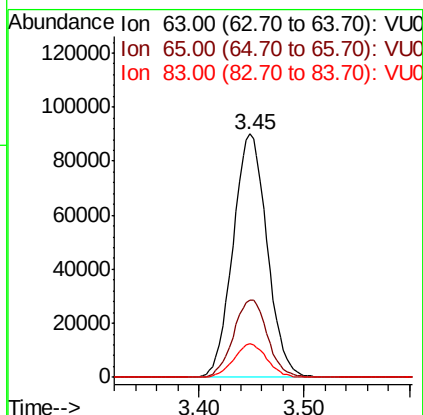
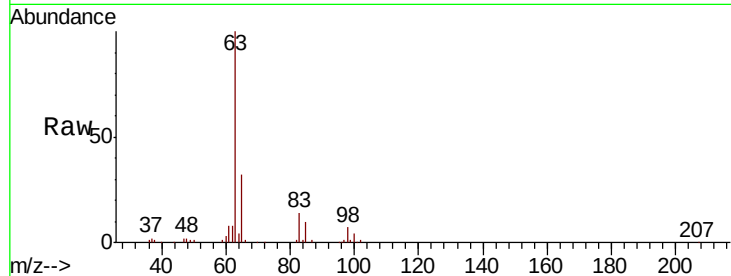




#19
 1,1-Dichloroethane
 Concen: 54.269 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

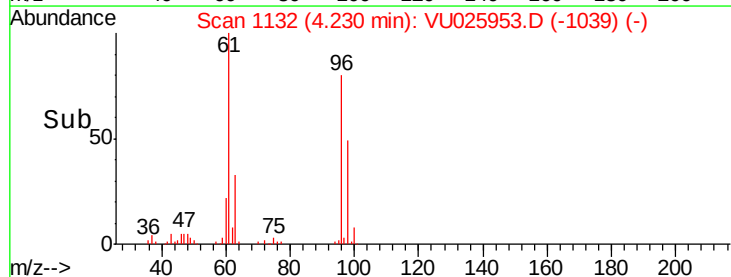
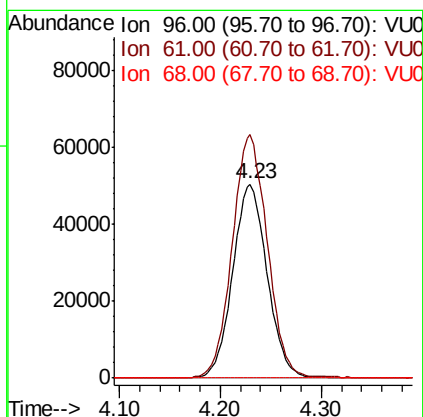
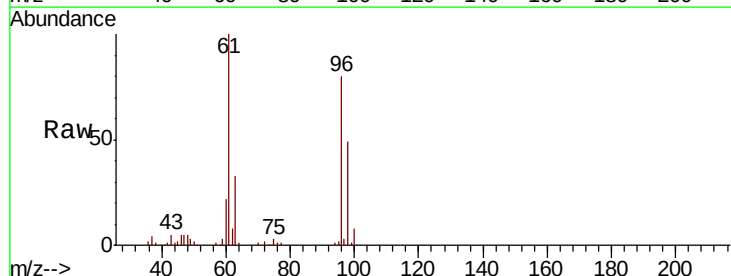
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

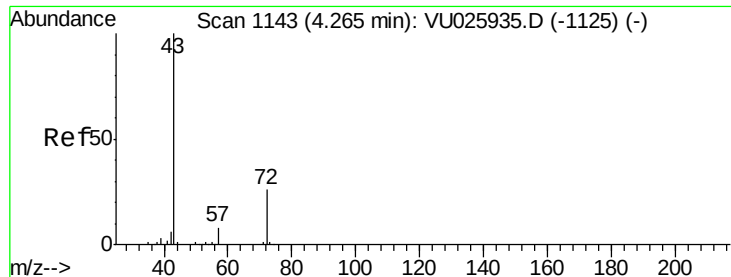
Tgt Ion: 63 Resp: 201916
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.0 41.0
 83 13.6 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 52.297 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion: 96 Resp: 119862
 Ion Ratio Lower Upper
 96 100
 61 125.7 87.4 162.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 94.549 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

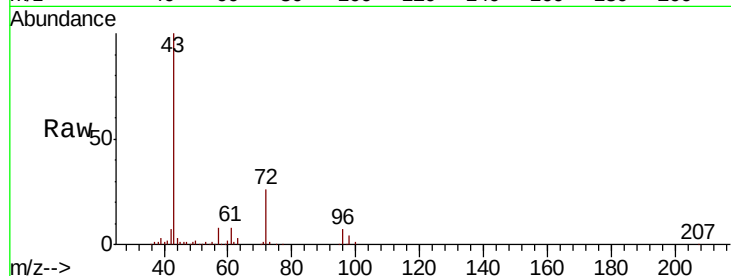
VSTD05046

Tgt Ion: 43 Resp: 175856

Ion Ratio Lower Upper

43 100

72 27.4 13.6 40.8

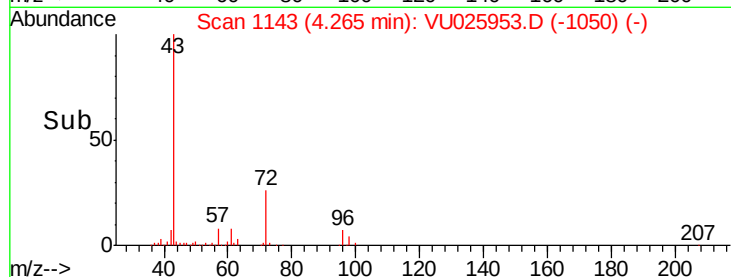


Abundance Ion 43.00 (42.70 to 43.70): VU025935.D (-1125) (-)

Ion 72.00 (71.70 to 72.70): VU025935.D (-1125) (-)

4.27

Time-->



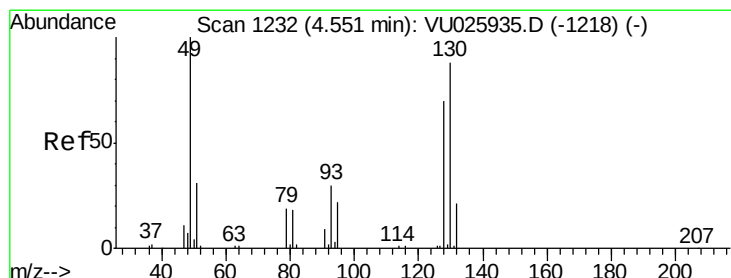
Abundance

Ion 43.00 (42.70 to 43.70): VU025935.D (-1125) (-)

Ion 72.00 (71.70 to 72.70): VU025935.D (-1125) (-)

4.27

Time-->



#23

Bromochloromethane

Concen: 52.684 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Tgt Ion: 128 Resp: 63396

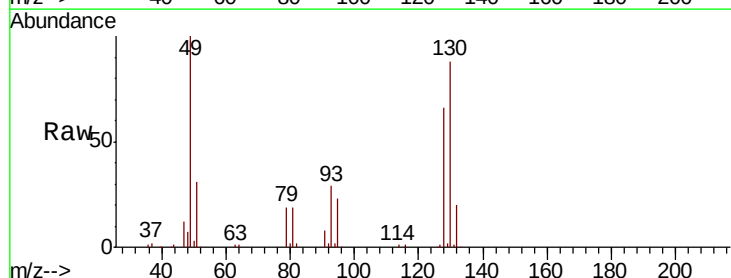
Ion Ratio Lower Upper

128 100

49 150.9 103.3 191.8

130 133.0 90.4 167.8

51 46.4 35.5 53.3



Abundance Ion 128.00 (127.70 to 128.70): VU025935.D (-1218) (-)

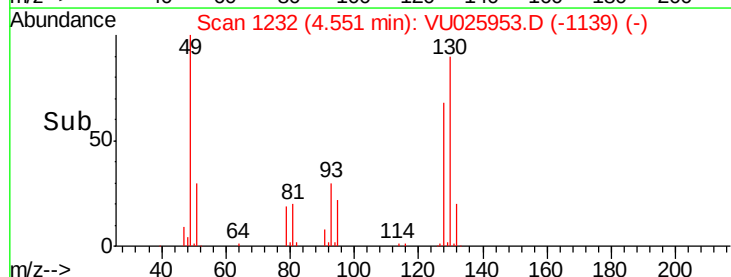
Ion 49.00 (48.70 to 49.70): VU025935.D (-1218) (-)

Ion 130.00 (129.70 to 130.70): VU025935.D (-1218) (-)

Ion 51.00 (50.70 to 51.70): VU025935.D (-1218) (-)

4.55

Time-->



Abundance

Ion 128.00 (127.70 to 128.70): VU025935.D (-1218) (-)

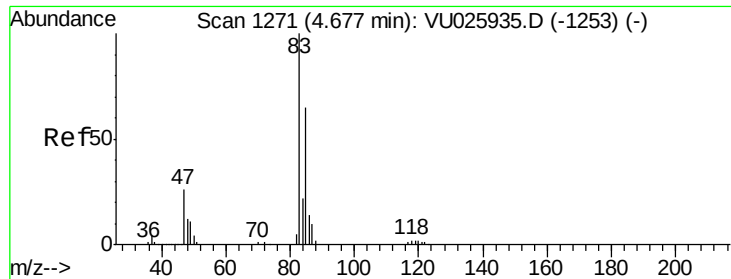
Ion 49.00 (48.70 to 49.70): VU025935.D (-1218) (-)

Ion 130.00 (129.70 to 130.70): VU025935.D (-1218) (-)

Ion 51.00 (50.70 to 51.70): VU025935.D (-1218) (-)

4.55

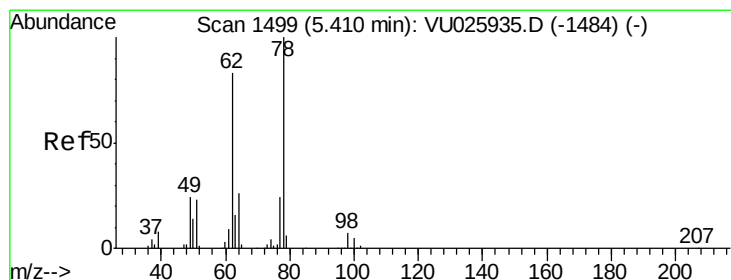
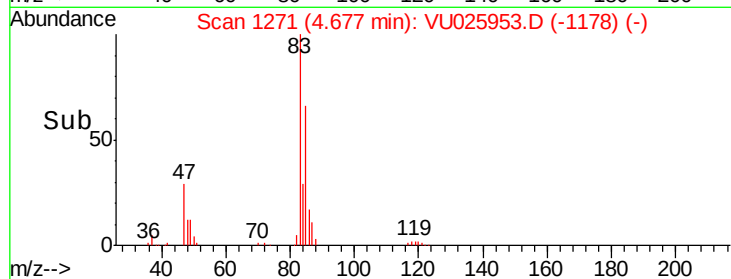
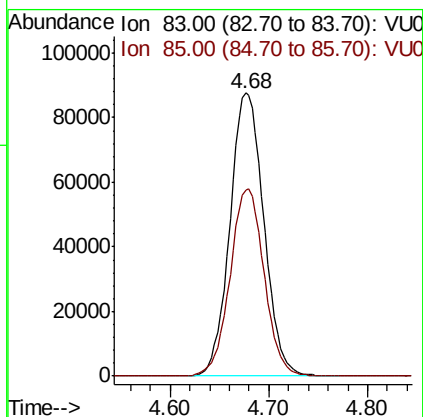
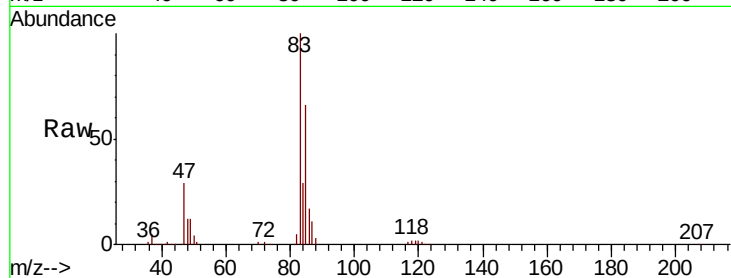
Time-->



#25
Chloroform
Concen: 53.143 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

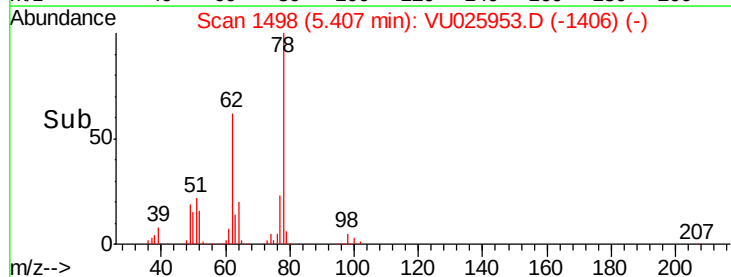
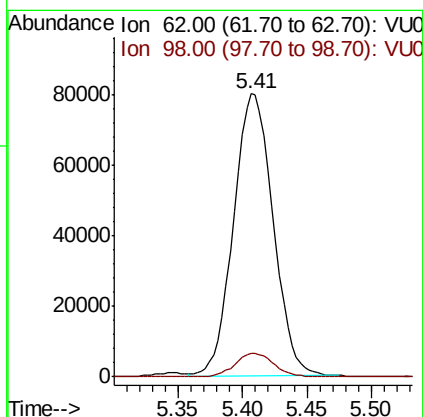
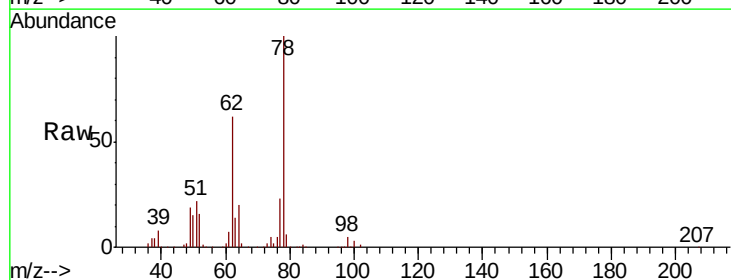
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

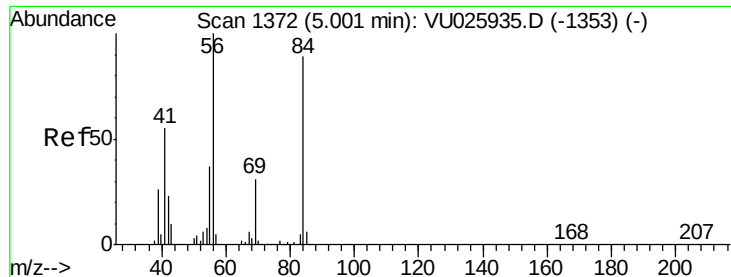
Tgt Ion: 83 Resp: 209466
Ion Ratio Lower Upper
83 100
85 65.9 45.0 83.6



#27
1,2-Dichloroethane
Concen: 54.654 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

Tgt Ion: 62 Resp: 171781
Ion Ratio Lower Upper
62 100
98 8.2 6.5 9.7

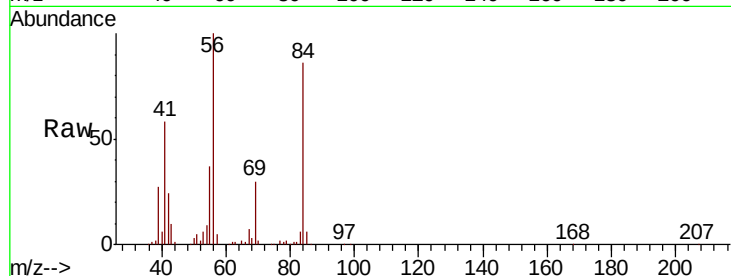




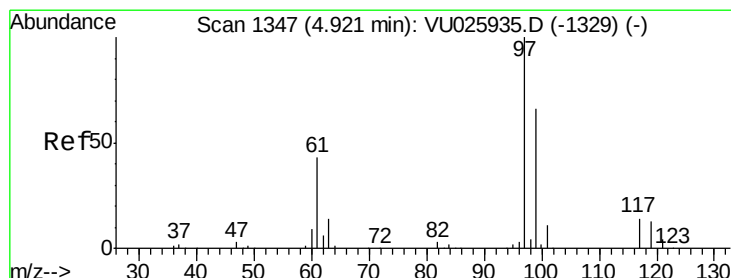
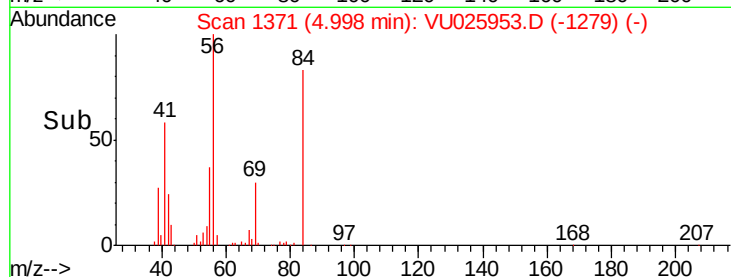
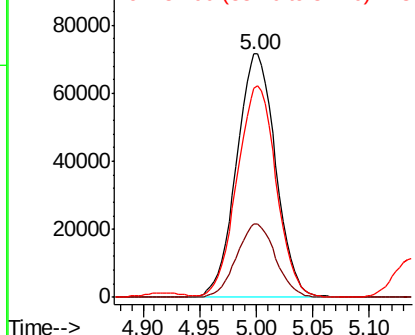
#29
Cyclohexane
Concen: 53.569 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

Tgt Ion: 56 Resp: 171881
Ion Ratio Lower Upper
56 100
69 30.1 24.8 37.2
84 87.4 70.6 106.0

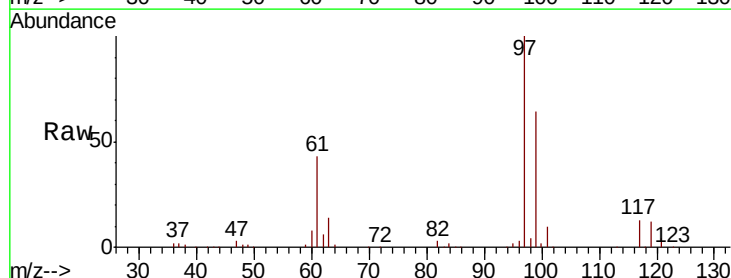


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

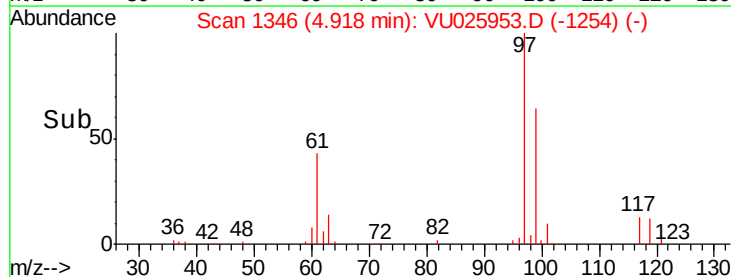
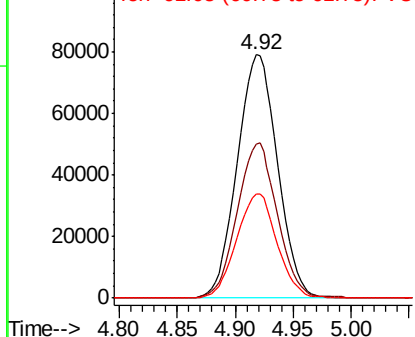


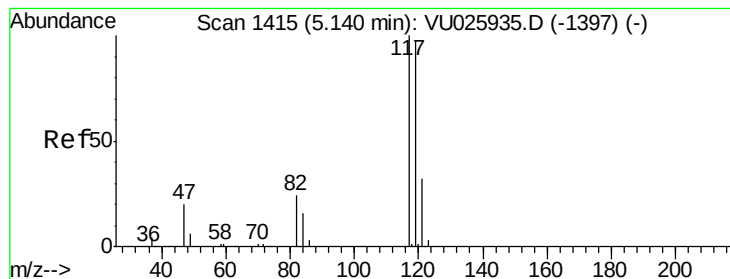
#30
1,1,1-Trichloroethane
Concen: 55.204 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

Tgt Ion: 97 Resp: 191319
Ion Ratio Lower Upper
97 100
99 63.3 52.4 78.6
61 43.0 34.6 52.0



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 56.595 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

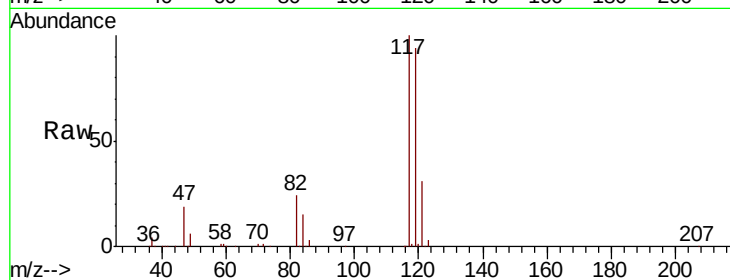
VSTD05046

Tgt Ion:117 Resp: 175397

Ion Ratio Lower Upper

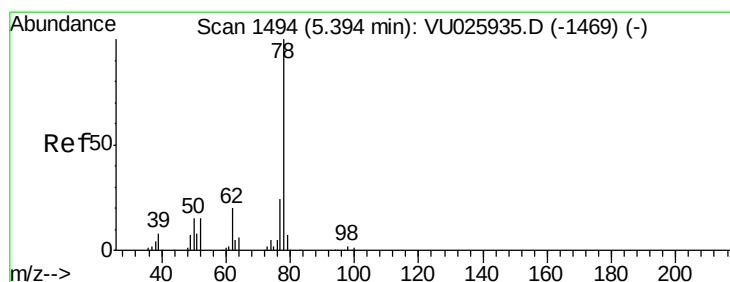
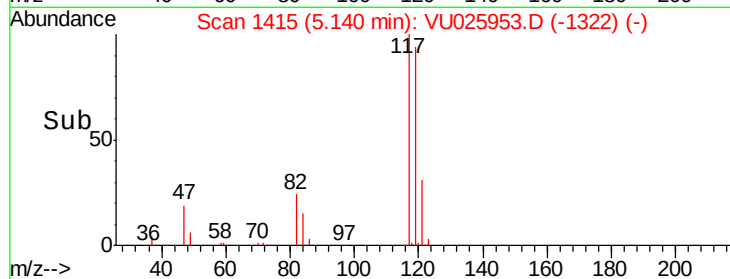
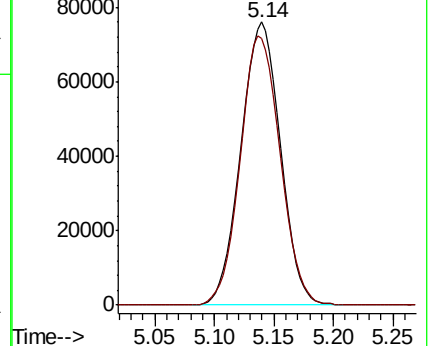
117 100

119 96.2 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 55.318 ug/L

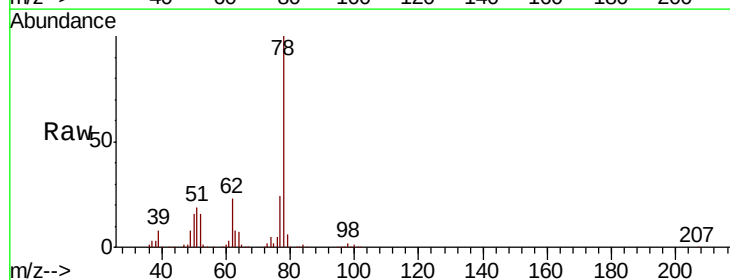
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

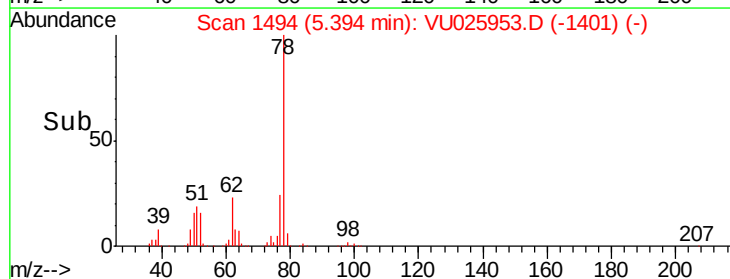
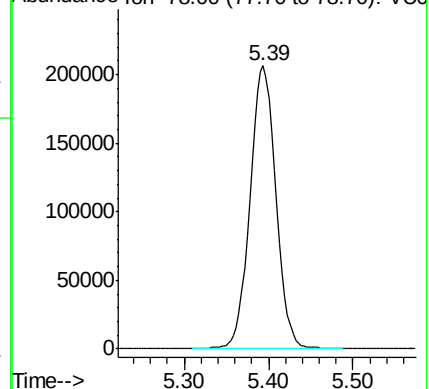
Lab File: VU025953.D

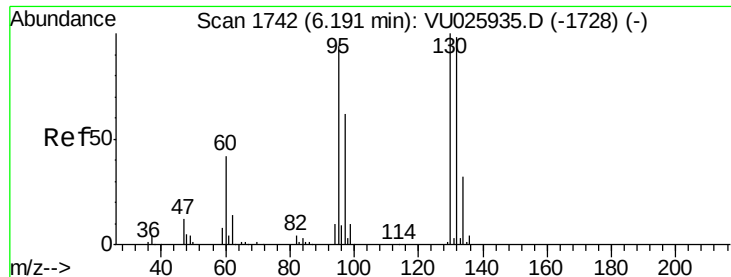
Acq: 07 Aug 2018 21:16

Tgt Ion: 78 Resp: 440246



Abundance Ion 78.00 (77.70 to 78.70): VU0

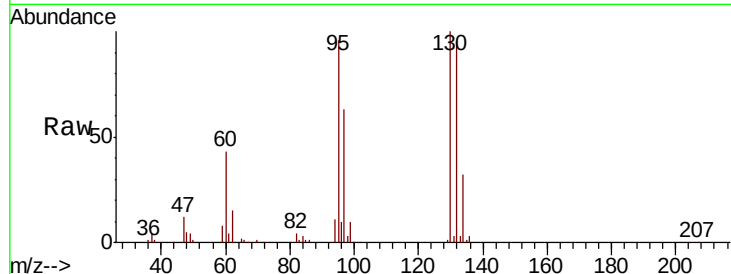




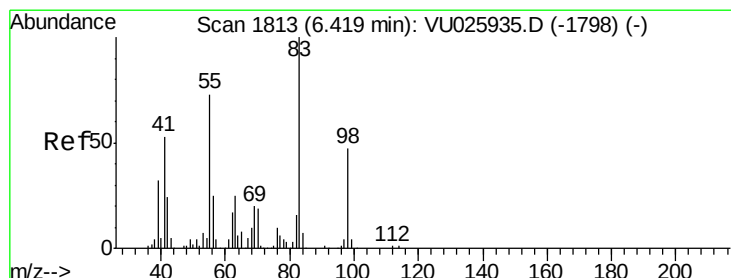
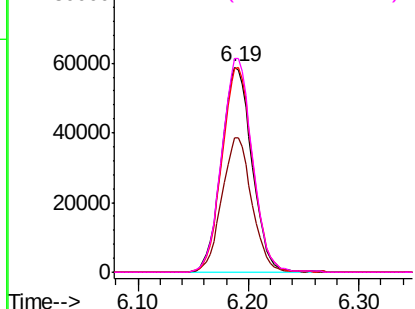
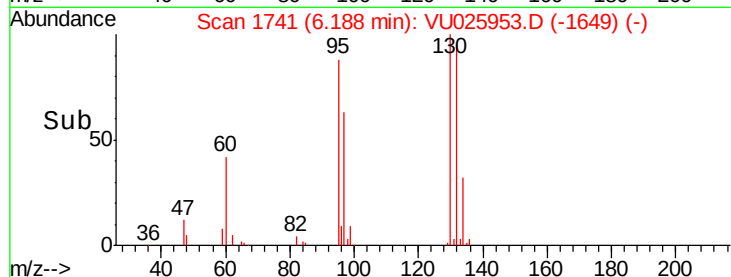
#34
 Trichloroethene
 Concen: 51.208 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	95	Resp:	113413
Ion	Ratio	Lower	Upper
95	100		
97	65.2	45.9	85.3
132	99.3	72.2	134.2
130	104.0	74.9	139.1

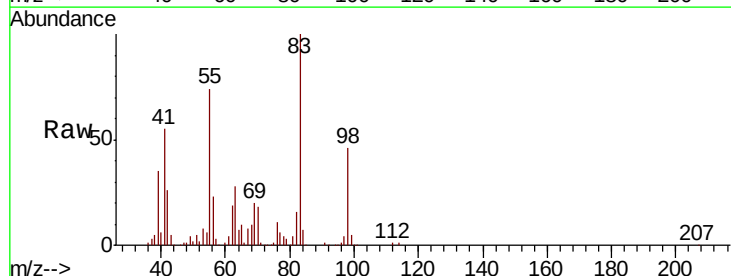


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

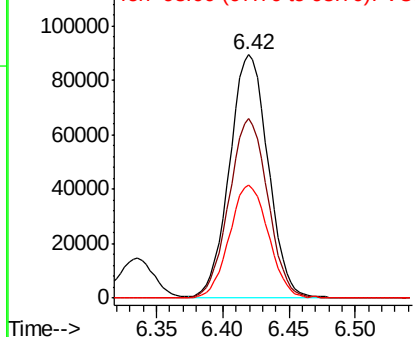
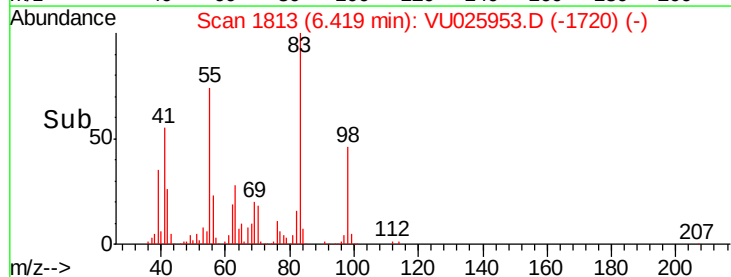


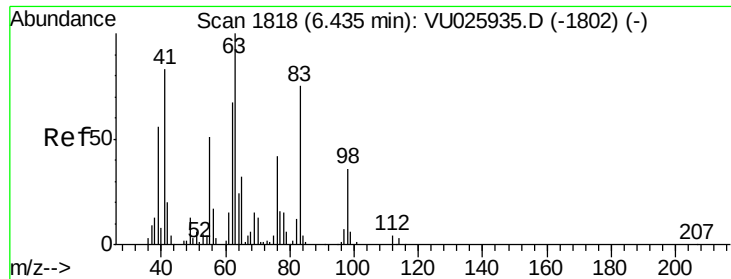
#35
 Methylcyclohexane
 Concen: 53.776 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion:	83	Resp:	180268
Ion	Ratio	Lower	Upper
83	100		
55	74.9	61.1	91.7
98	47.2	38.6	57.8



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

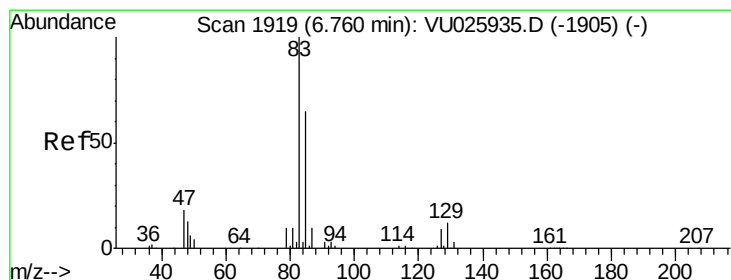
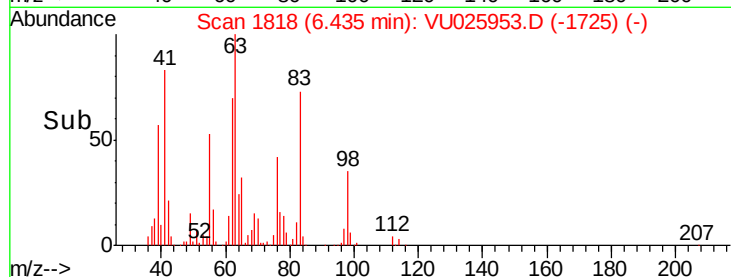
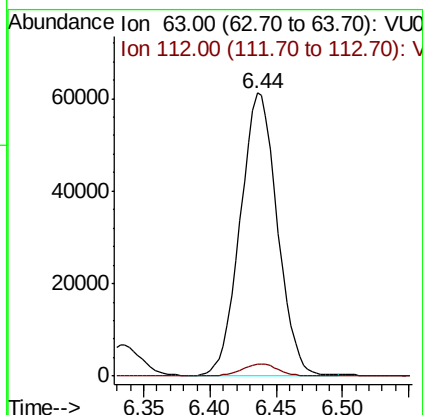
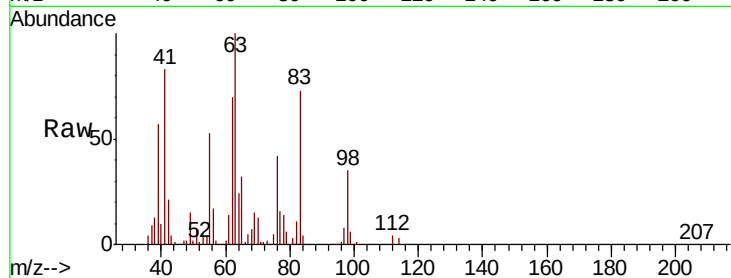




#37
 1,2-Dichloropropane
 Concen: 56.101 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

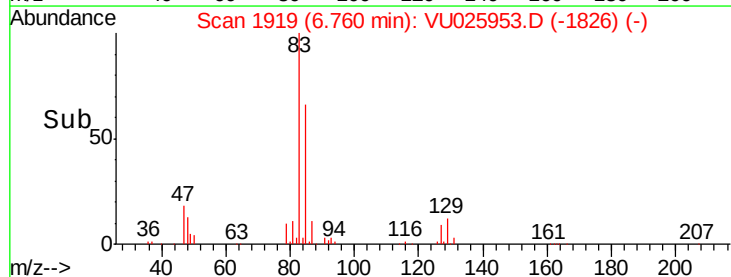
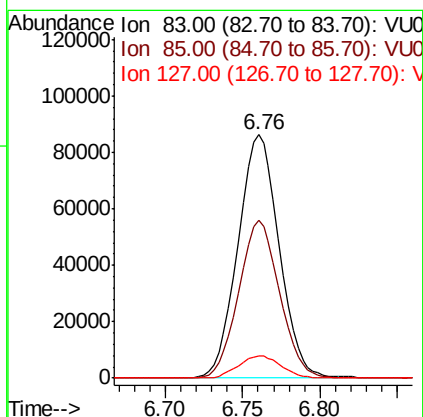
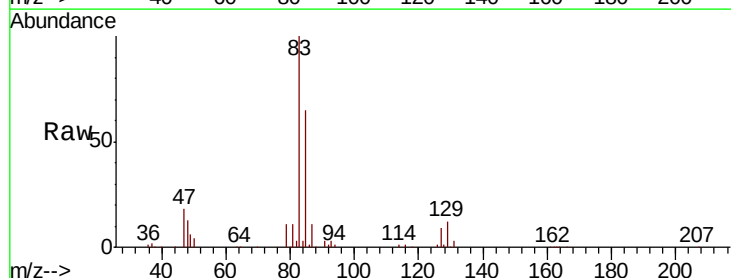
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

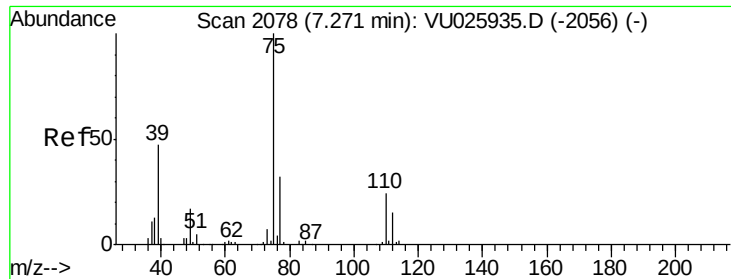
Tgt Ion: 63 Resp: 119286
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.3 4.9



#38
 Bromodichloromethane
 Concen: 55.219 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion: 83 Resp: 159600
 Ion Ratio Lower Upper
 83 100
 85 64.9 46.7 86.7
 127 9.2 8.0 12.0

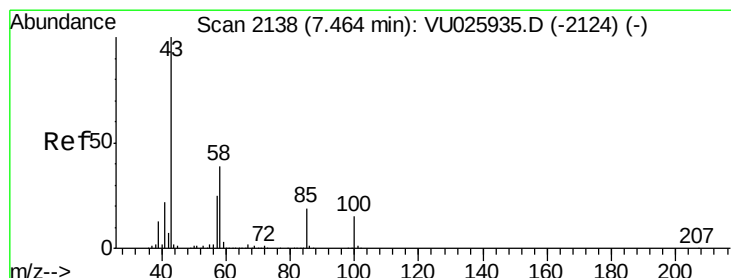
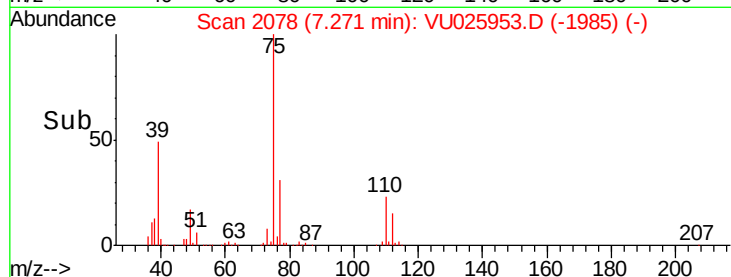
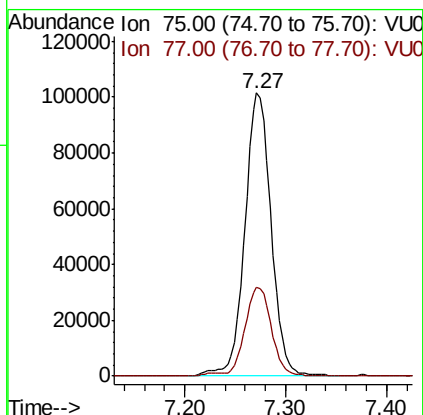
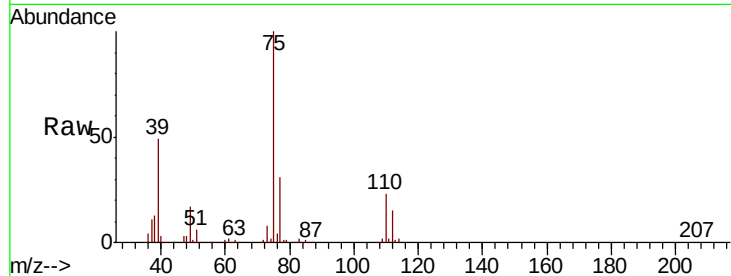




#39
 cis-1,3-Dichloropropene
 Concen: 52.581 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

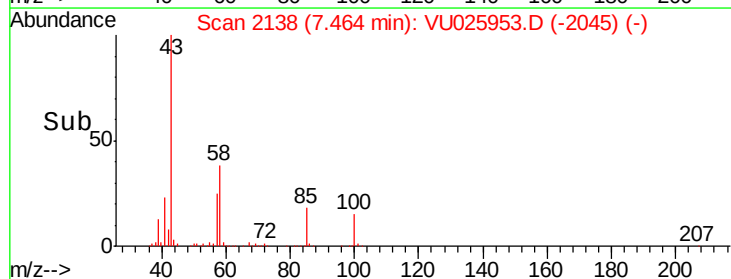
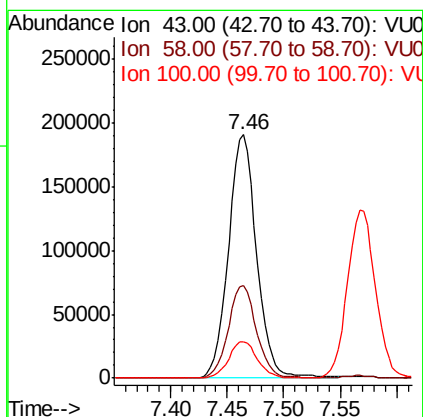
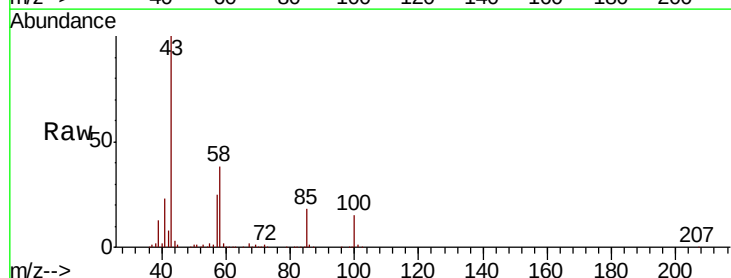
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

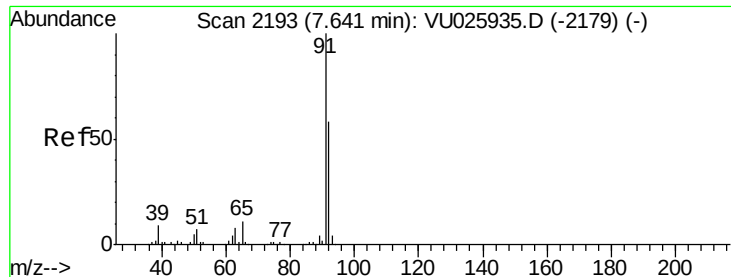
Tgt Ion: 75 Resp: 182098
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 114.086 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion: 43 Resp: 330767
 Ion Ratio Lower Upper
 43 100
 58 38.1 30.8 46.2
 100 15.3 12.1 18.1





#42

Toluene

Concen: 54.366 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

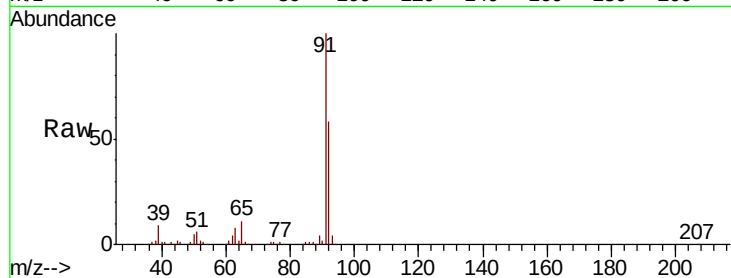
VSTD05046

Tgt Ion: 91 Resp: 472177

Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

300000

250000

200000

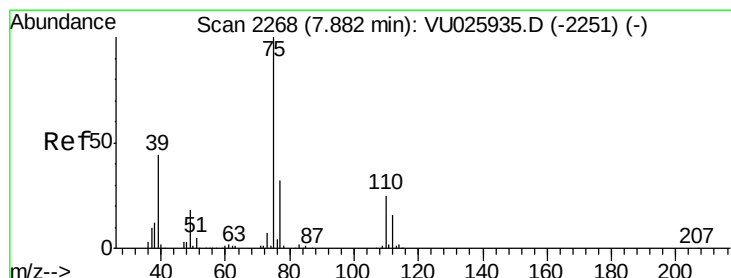
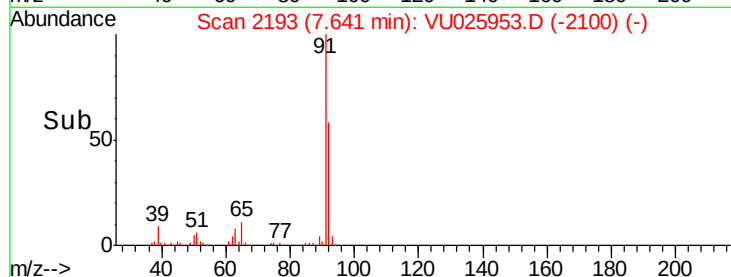
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 52.451 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025953.D

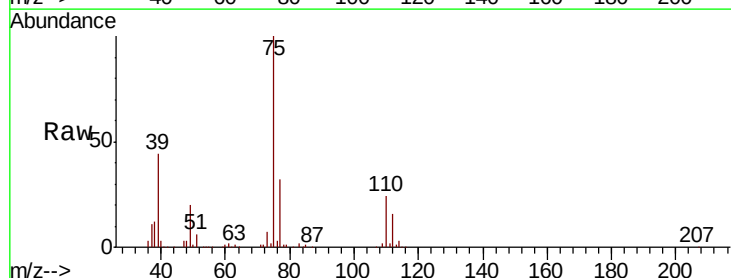
Acq: 07 Aug 2018 21:16

Tgt Ion: 75 Resp: 171691

Ion Ratio Lower Upper

75 100

77 32.0 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

120000

100000

80000

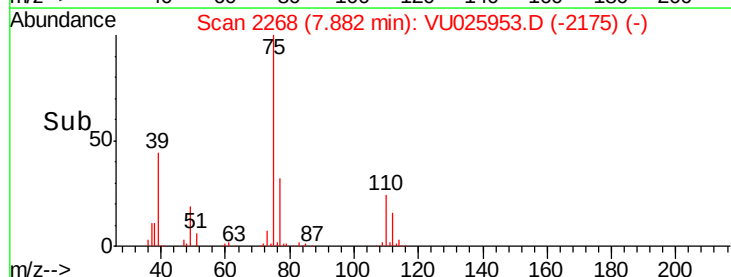
60000

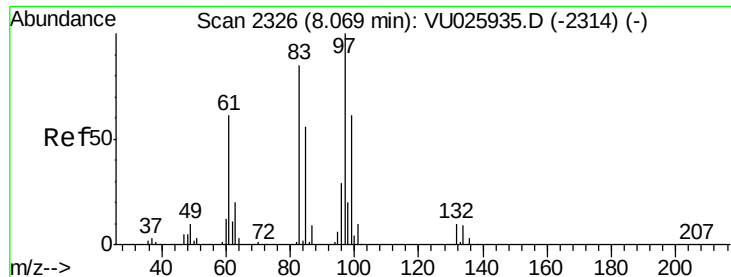
40000

20000

0

Time-->

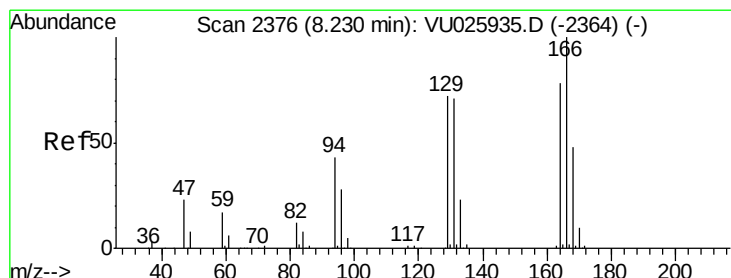
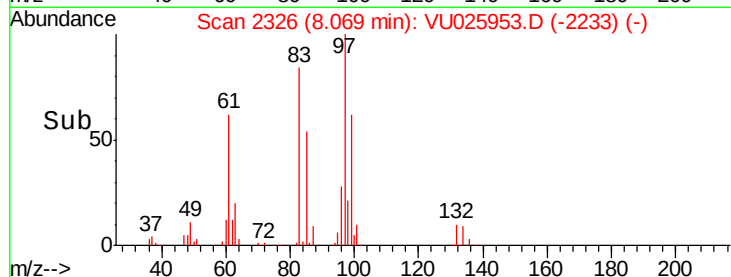
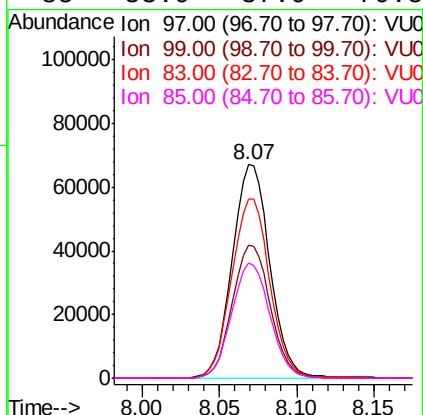
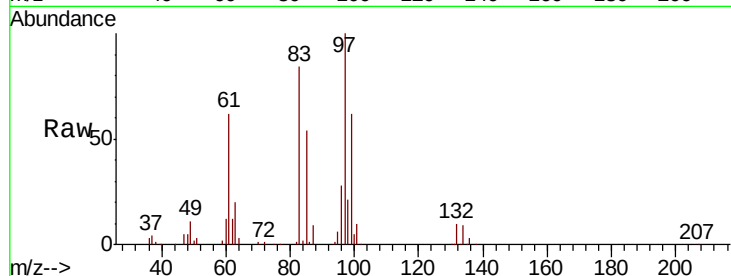




#45
 1,1,2-Trichloroethane
 Concen: 55.911 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

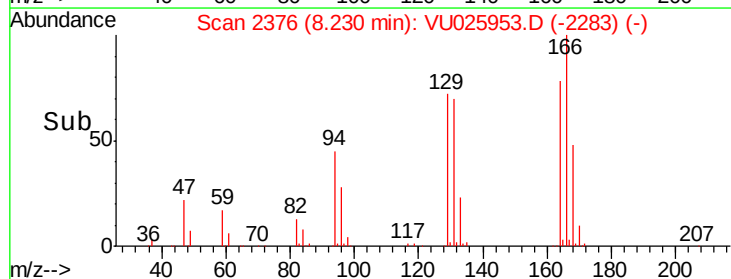
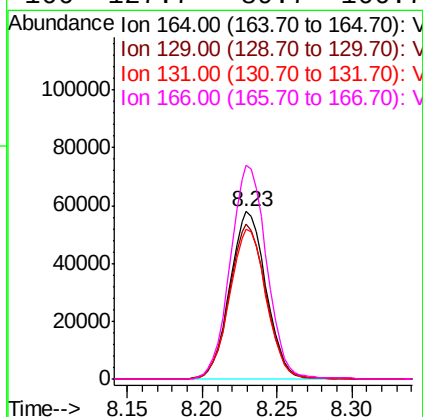
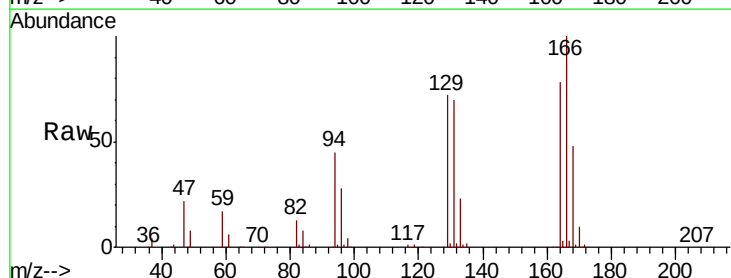
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

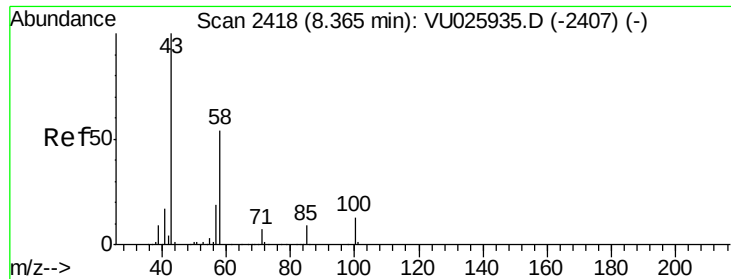
Tgt Ion:	97	Resp:	113553
Ion	Ratio	Lower	Upper
97	100		
99	62.3	44.3	82.3
83	84.0	59.8	111.1
85	53.9	37.9	70.5



#46
 Tetrachloroethene
 Concen: 51.348 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion:	164	Resp:	97742
Ion	Ratio	Lower	Upper
164	100		
129	92.3	65.1	120.9
131	89.4	62.8	116.6
166	127.7	89.7	166.7

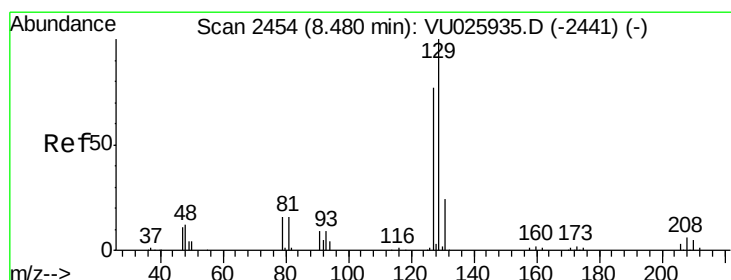
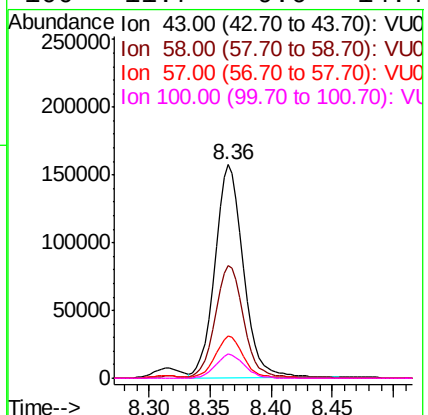
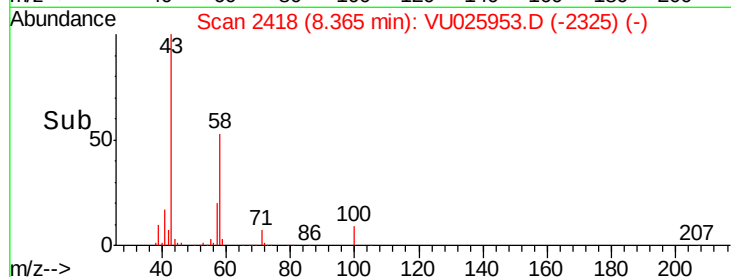
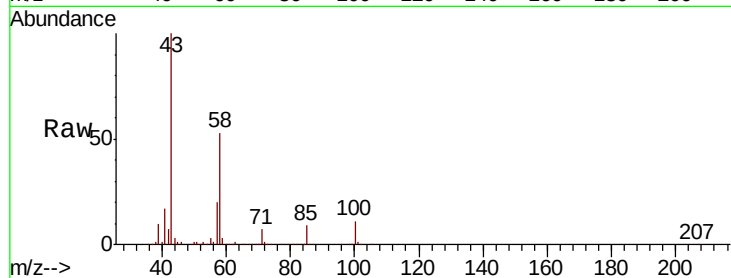




#48
2-Hexanone
Concen: 110.412 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

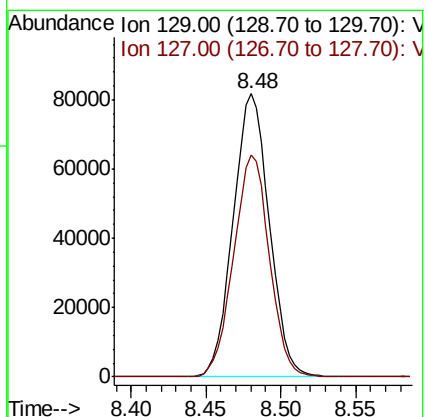
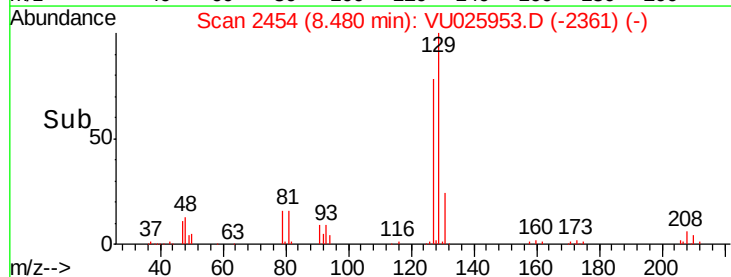
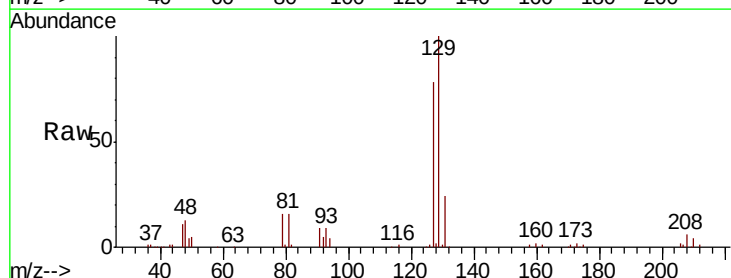
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

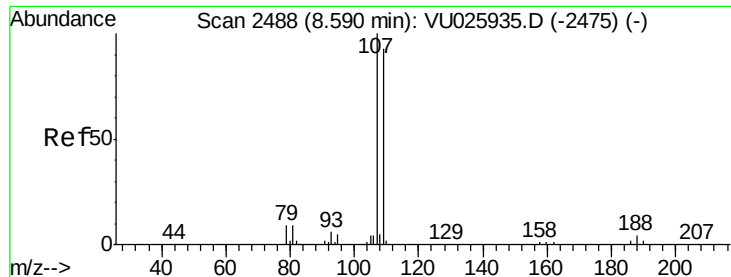
Tgt Ion:	43	Resp:	258258
Ion	Ratio	Lower	Upper
43	100		
58	52.6	42.9	64.3
57	18.9	15.4	23.2
100	11.7	9.6	14.4



#49
Dibromochloromethane
Concen: 55.098 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

Tgt Ion:	129	Resp:	137451
Ion	Ratio	Lower	Upper
129	100		
127	78.2	53.8	100.0

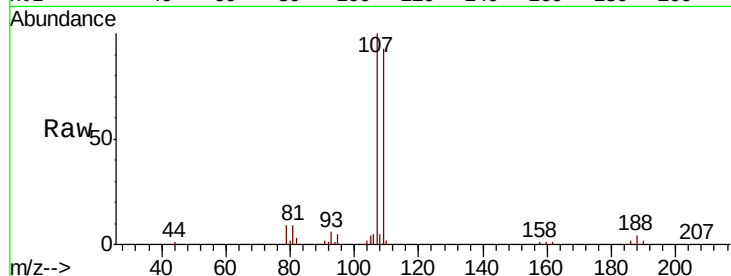




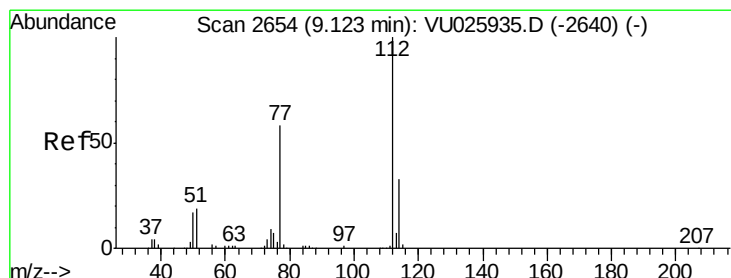
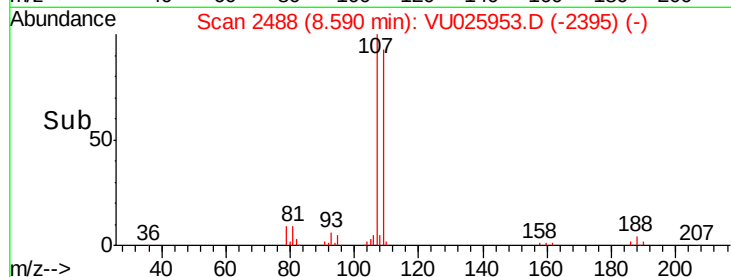
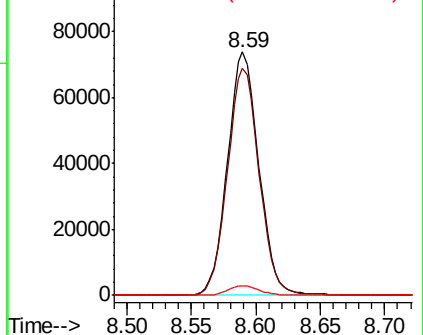
#50
 1,2-Dibromoethane
 Concen: 54.691 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.1	66.6	123.8
188	3.8	3.2	4.8

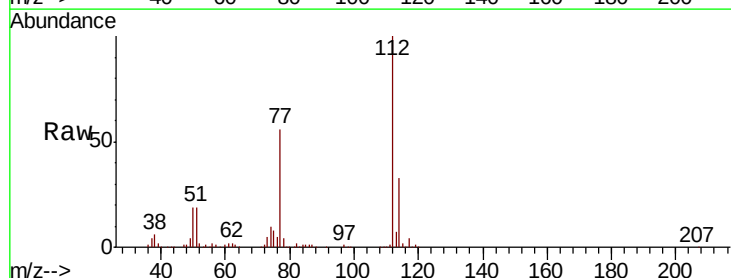


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

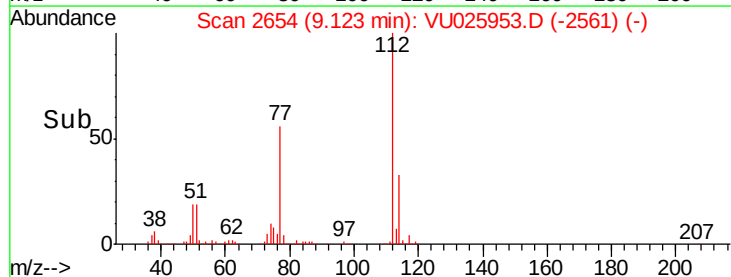
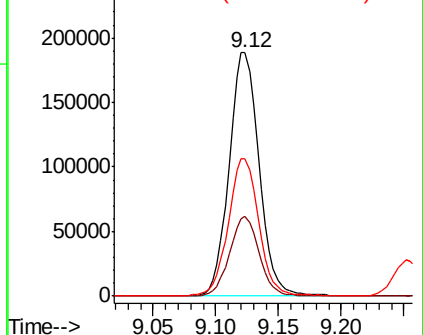


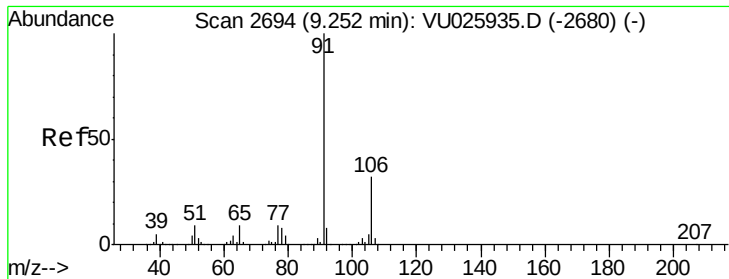
#51
 Chlorobenzene
 Concen: 52.632 ug/L
 RT: 9.12 min Scan# 2654
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.5	41.9
77	56.2	45.8	68.8



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 52.057 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

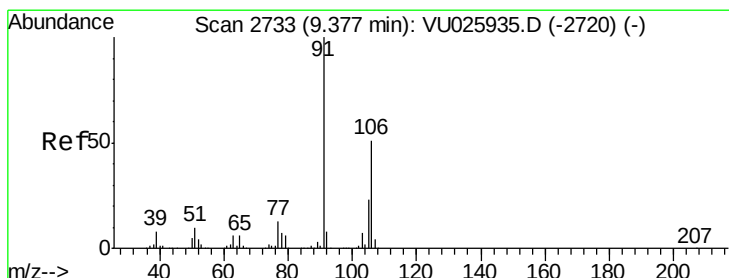
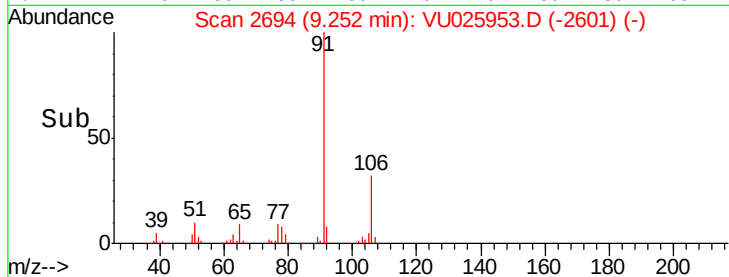
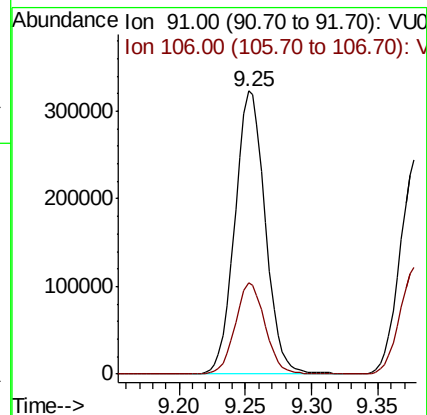
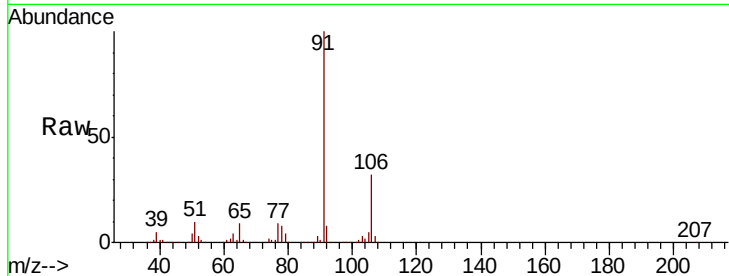
VSTD05046

Tgt Ion: 91 Resp: 514380

Ion Ratio Lower Upper

91 100

106 32.2 22.3 41.5



#53

m,p-Xylene

Concen: 51.815 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025953.D

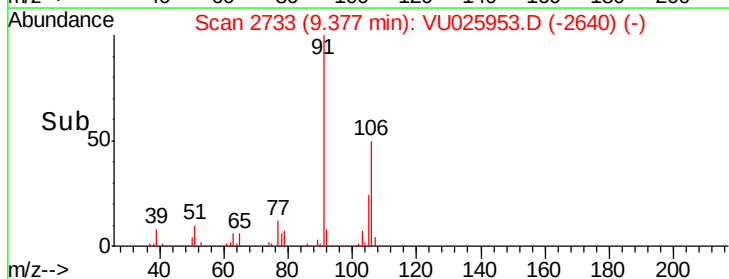
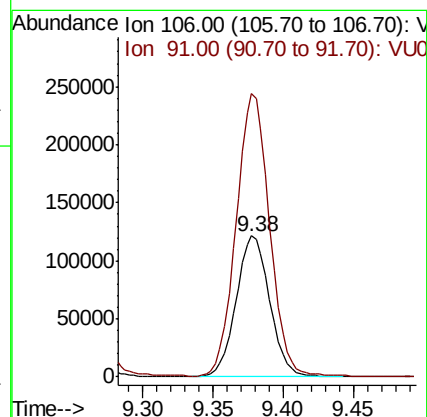
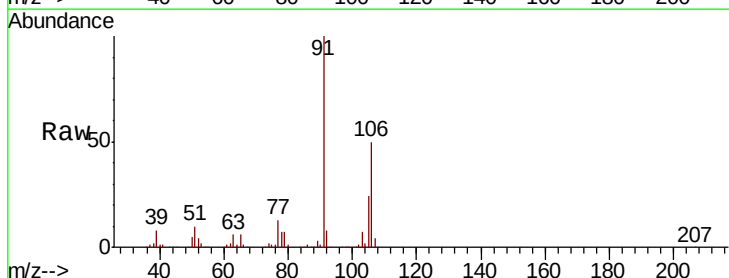
Acq: 07 Aug 2018 21:16

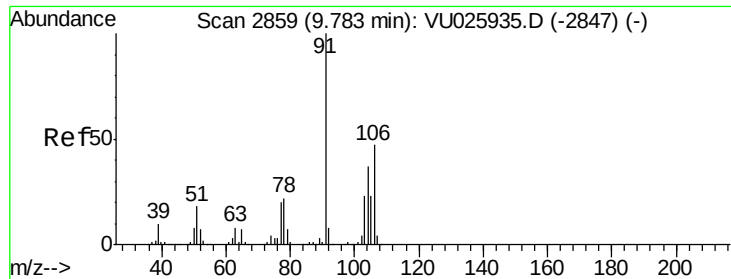
Tgt Ion: 106 Resp: 200845

Ion Ratio Lower Upper

106 100

91 200.8 141.7 263.3

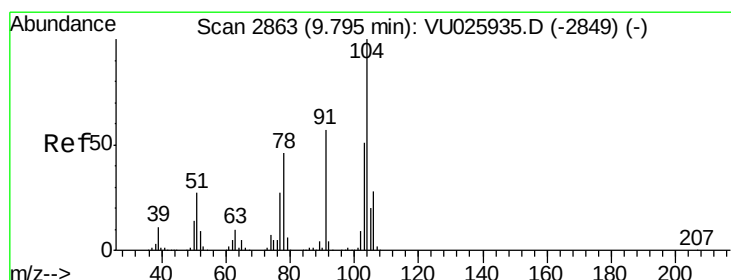
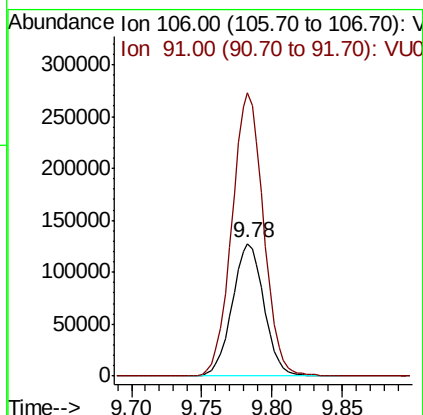
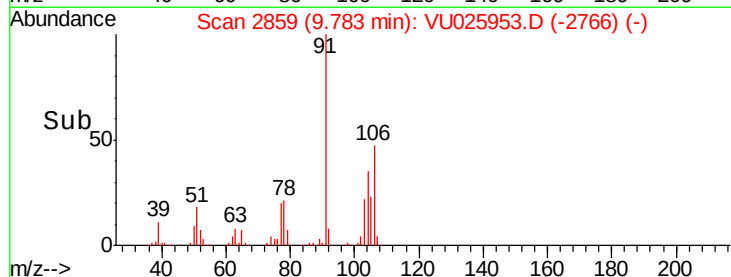
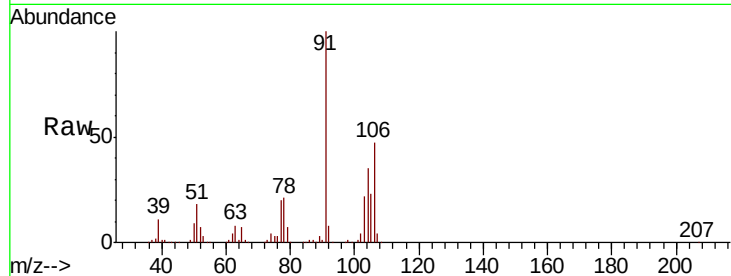




#54
o-xylene
Concen: 54.520 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

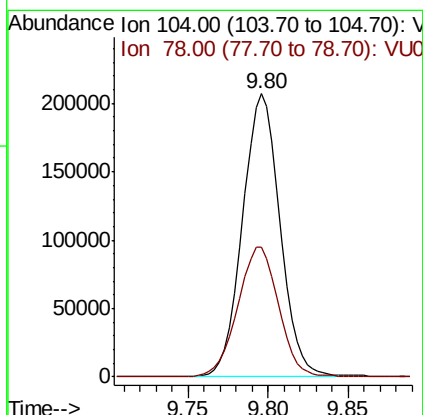
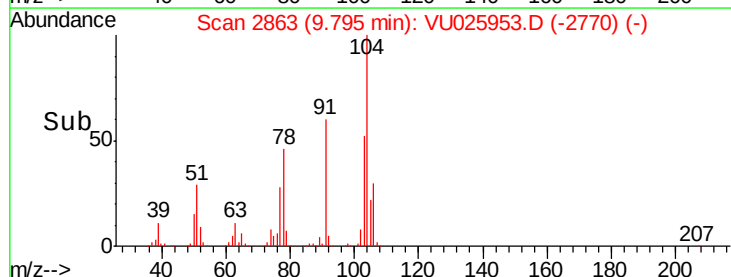
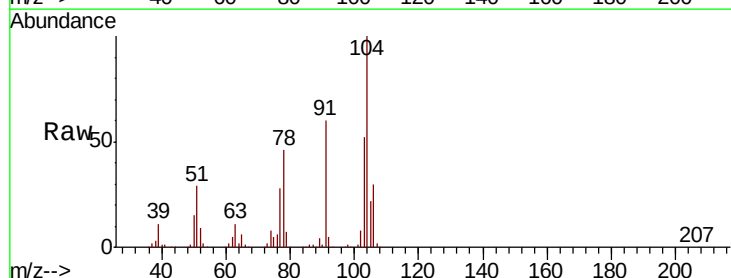
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

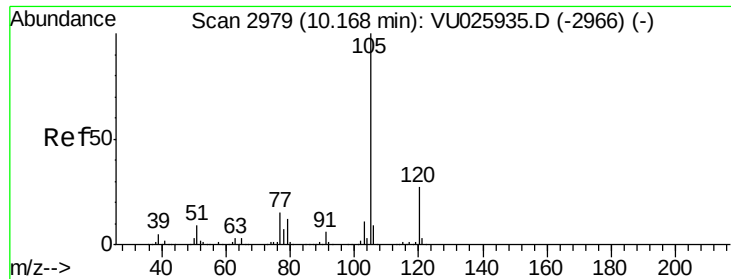
Tgt Ion:106 Resp: 201233
Ion Ratio Lower Upper
106 100
91 213.1 150.6 279.6



#55
Styrene
Concen: 53.400 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU025953.D
Acq: 07 Aug 2018 21:16

Tgt Ion:104 Resp: 332104
Ion Ratio Lower Upper
104 100
78 45.8 31.8 59.0





#56

Isopropylbenzene

Concen: 53.297 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

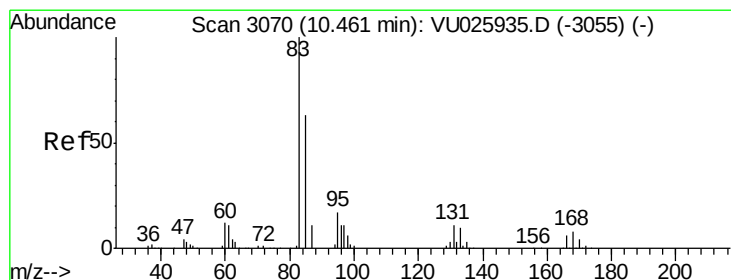
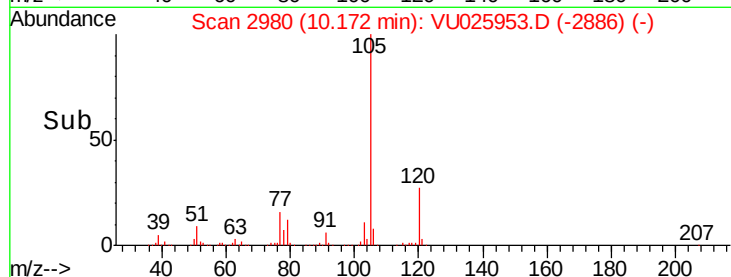
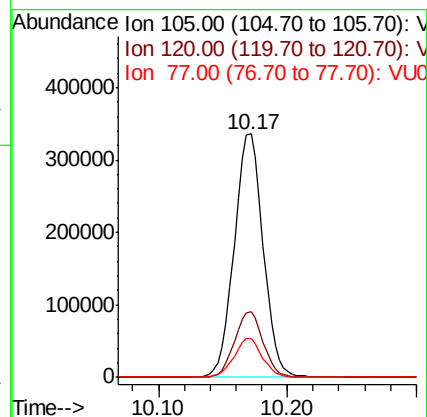
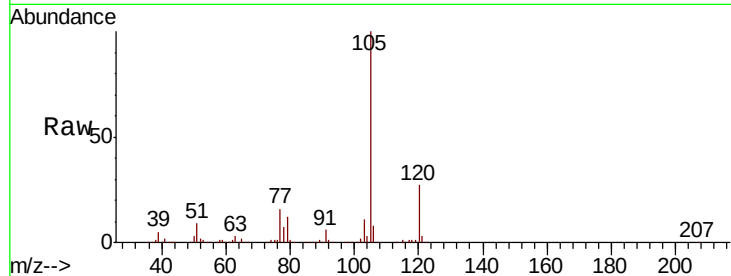
Tgt Ion: 105 Resp: 522841

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

77 15.7 12.4 18.6



#58

1,1,2,2-Tetrachloroethane

Concen: 55.599 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

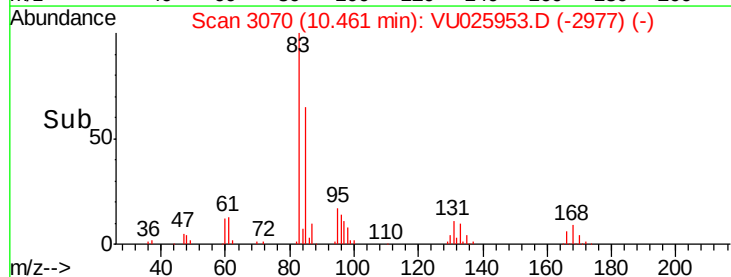
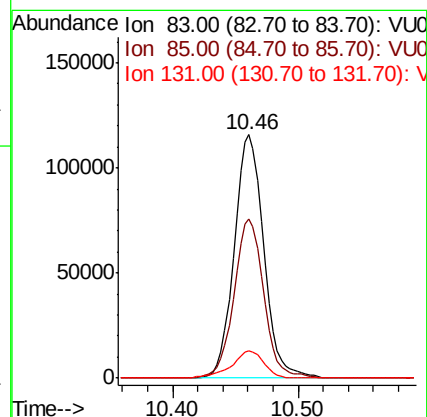
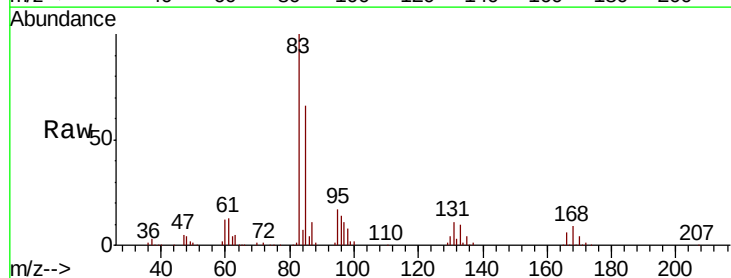
Tgt Ion: 83 Resp: 189846

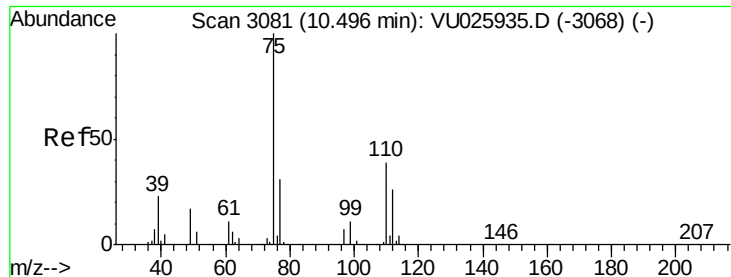
Ion Ratio Lower Upper

83 100

85 65.6 45.1 83.7

131 11.2 8.7 13.1

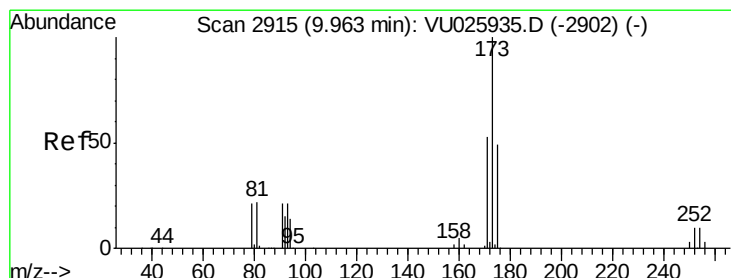
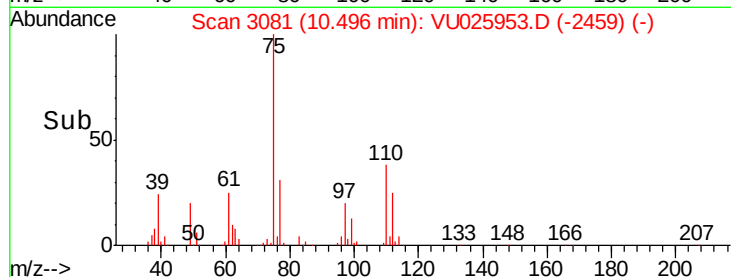
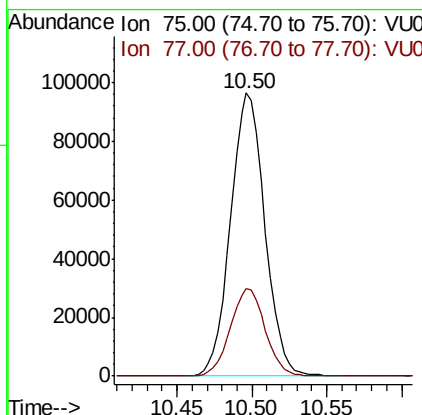
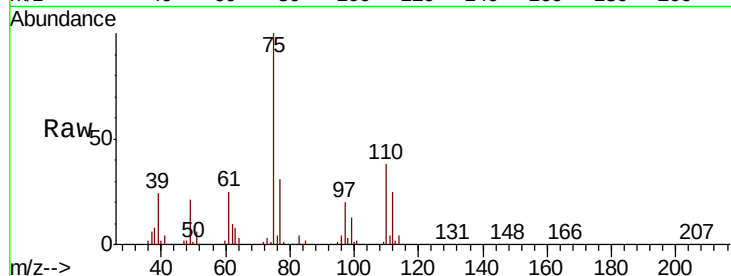




#59
 1,2,3-Trichloropropane
 Concen: 56.812 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

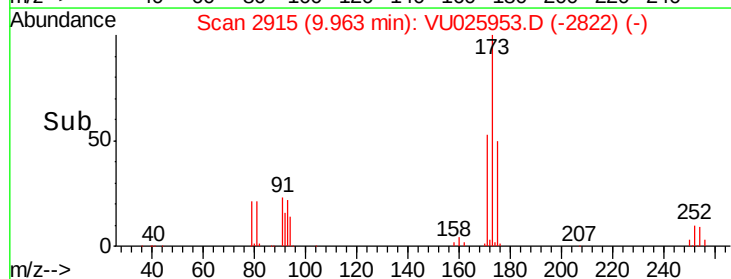
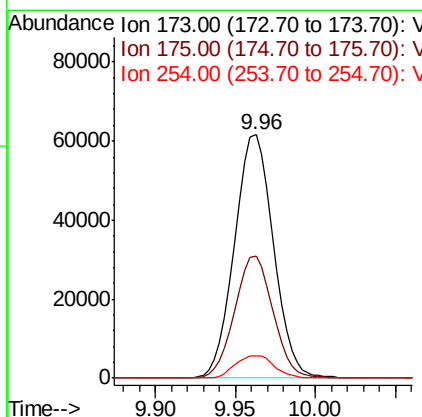
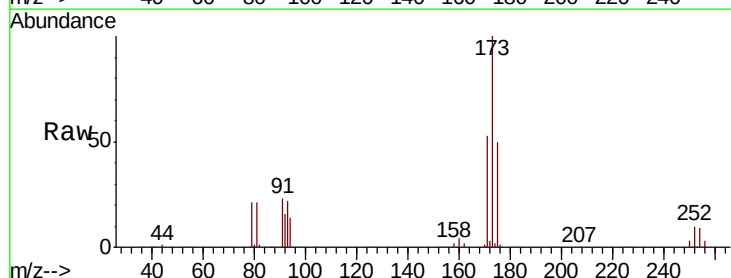
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

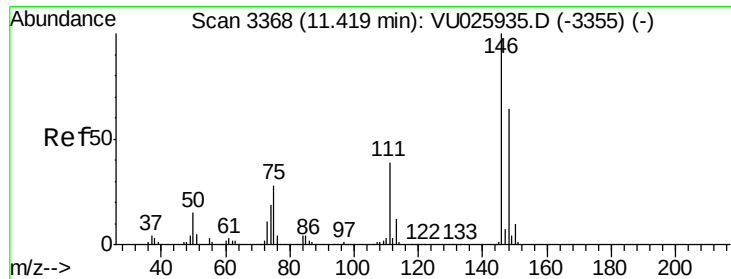
Tgt Ion: 75 Resp: 153740
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.8 38.8



#61
 Bromoform
 Concen: 58.212 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion: 173 Resp: 102351
 Ion Ratio Lower Upper
 173 100
 175 49.7 39.8 59.8
 254 9.3 7.3 10.9

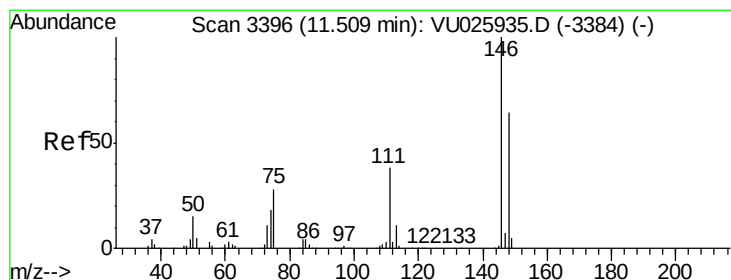
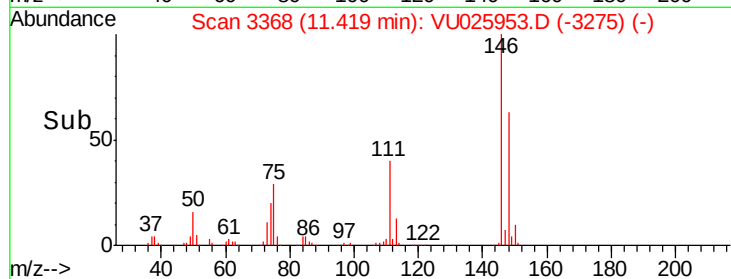
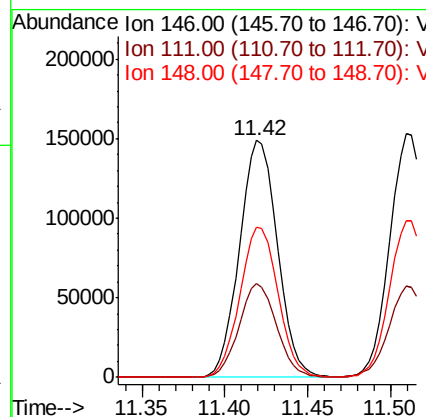
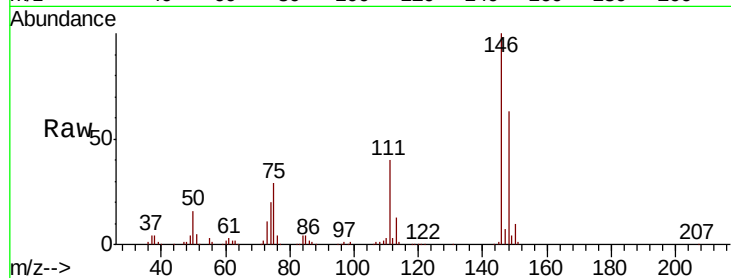




#62
 1,3-Dichlorobenzene
 Concen: 51.685 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

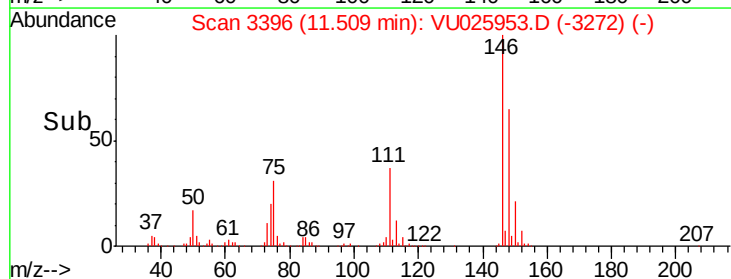
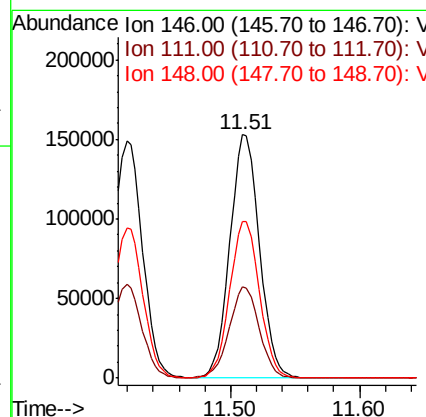
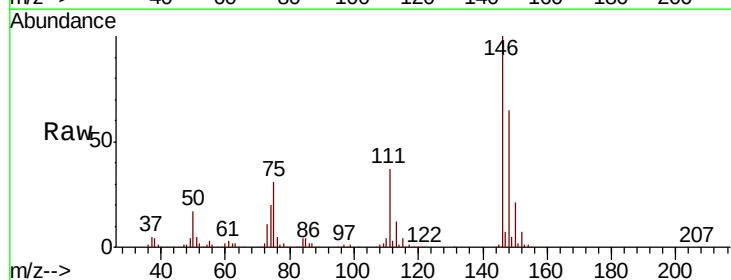
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

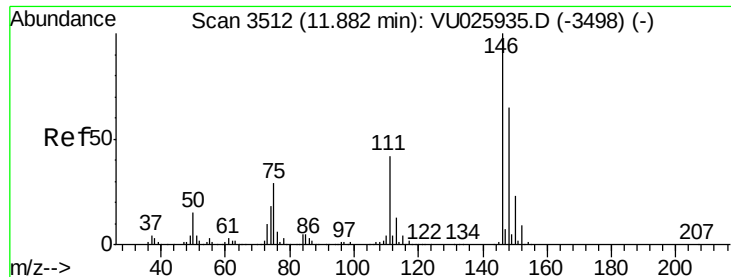
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	27.7	51.5
148	63.5	45.5	84.5



#63
 1,4-Dichlorobenzene
 Concen: 51.882 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	26.9	49.9
148	64.5	44.6	82.8

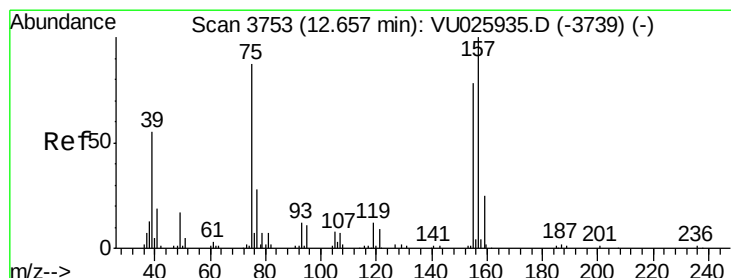
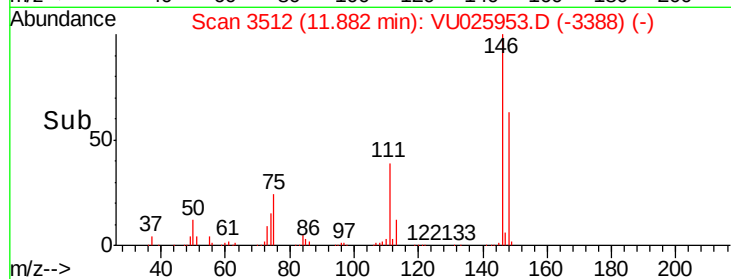
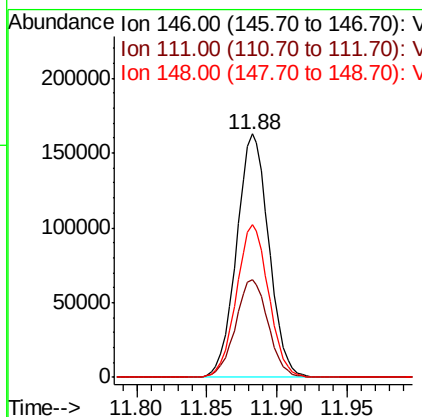
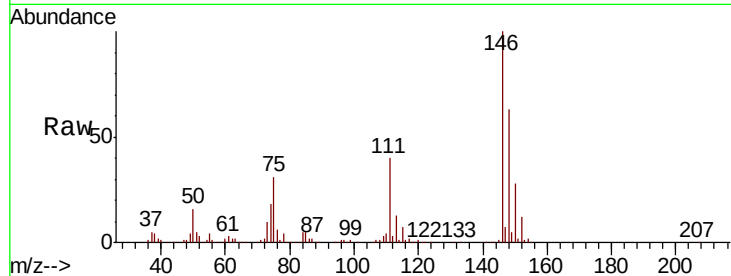




#65
 1,2-Dichlorobenzene
 Concen: 56.480 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

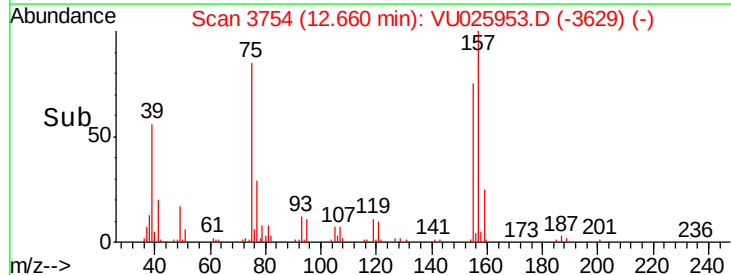
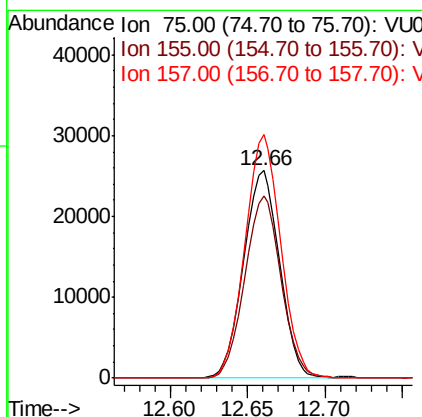
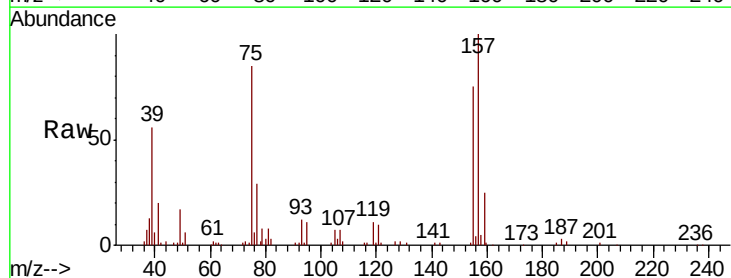
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

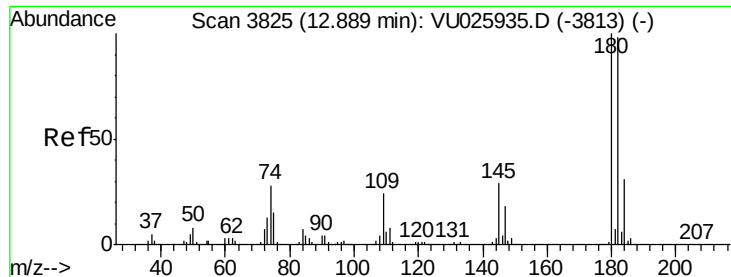
Tgt Ion: 146 Resp: 260875
 Ion Ratio Lower Upper
 146 100
 111 40.3 32.4 48.6
 148 62.7 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 59.271 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion: 75 Resp: 41604
 Ion Ratio Lower Upper
 75 100
 155 88.0 66.3 99.5
 157 117.4 91.5 137.3

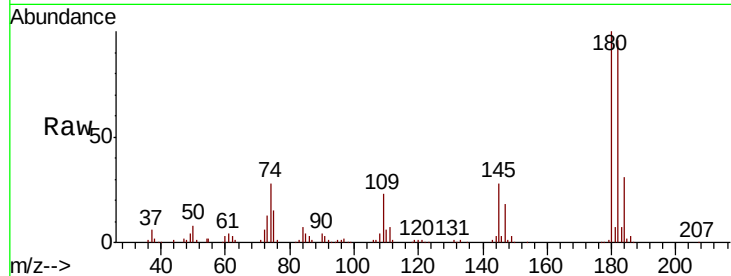




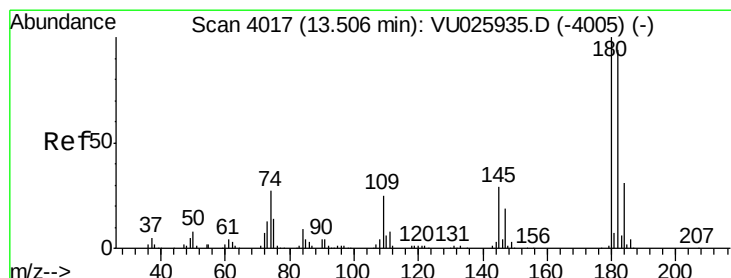
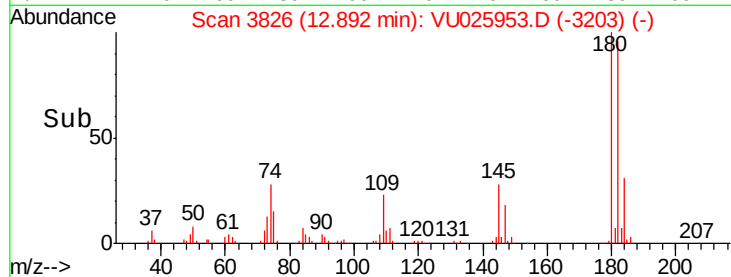
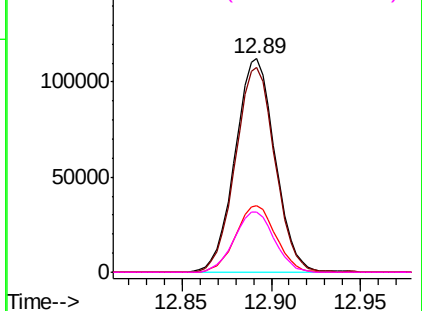
#67
 1,3,5-Trichlorobenzene
 Concen: 51.799 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:180 Resp: 175822
 Ion Ratio Lower Upper
 180 100
 182 94.8 77.3 115.9
 184 31.3 24.6 36.8
 145 28.4 23.0 34.6

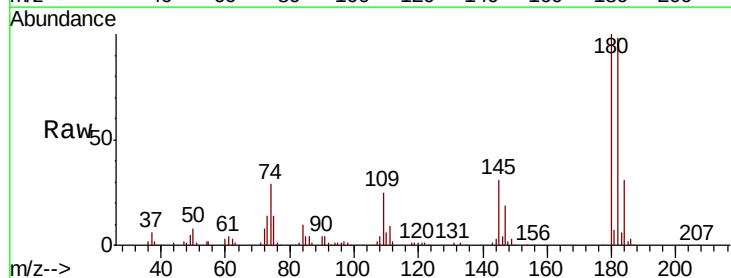


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

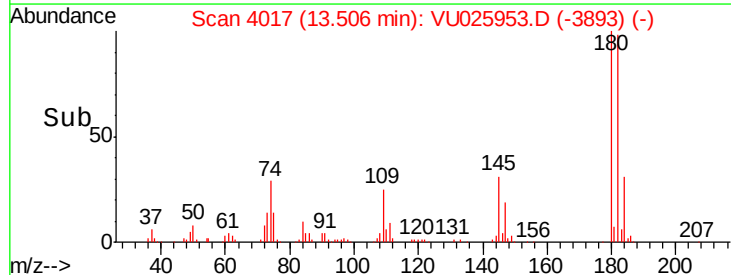
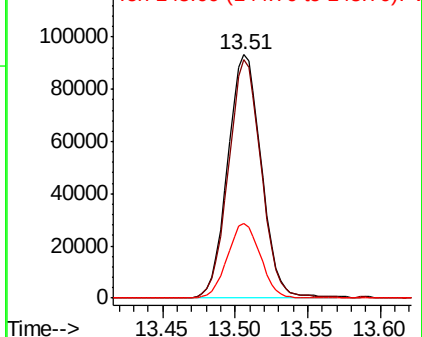


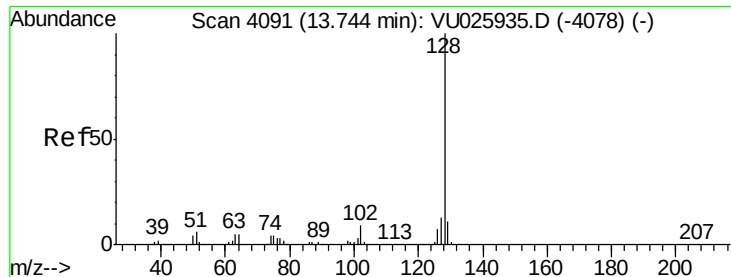
#68
 1,2,4-trichlorobenzene
 Concen: 51.020 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025953.D
 Acq: 07 Aug 2018 21:16

Tgt Ion:180 Resp: 150300
 Ion Ratio Lower Upper
 180 100
 182 95.0 78.1 117.1
 145 30.1 23.4 35.2



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: 52.582 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

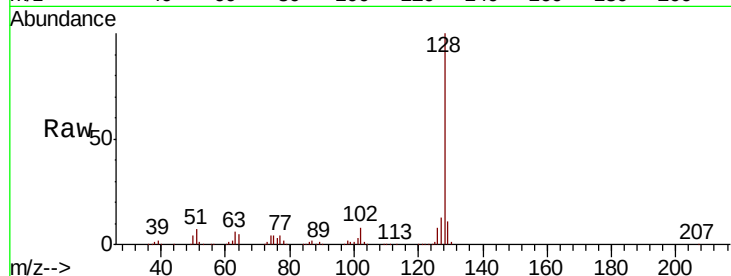
Tgt Ion:128 Resp: 455225

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

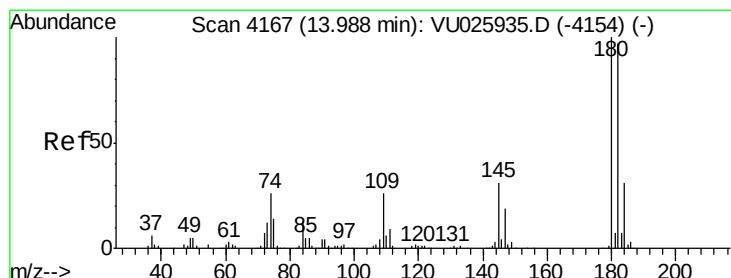
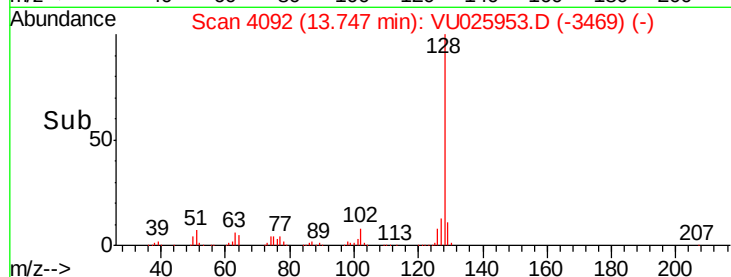
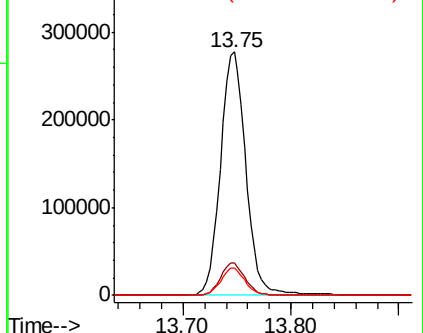
129 10.9 8.4 12.6



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: 51.325 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025953.D

Acq: 07 Aug 2018 21:16

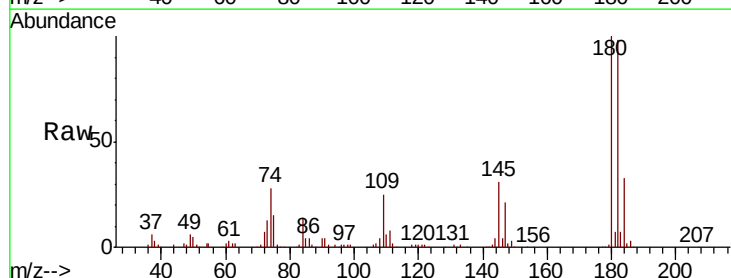
Tgt Ion:180 Resp: 154911

Ion Ratio Lower Upper

180 100

182 97.0 76.6 114.8

145 31.0 25.4 38.2



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

