

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080218\
 Data File : VU025810.D
 Acq On : 02 Aug 2018 23:09
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Quant Time: Aug 03 06:53:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 03 05:43:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	316582	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	301386	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	163588	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	93875	51.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	103.88%
7) Chloroethane-d5	1.68	69	74384	49.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.78%
11) 1,1-Dichloroethene-d2	2.27	63	190202	50.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.10%
21) 2-Butanone-d5	4.18	46	156273	112.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.00%
24) Chloroform-d	4.65	84	203522	50.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.10%
26) 1,2-Dichloroethane-d4	5.31	65	134006	50.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.66%
32) Benzene-d6	5.35	84	392374	50.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.52%
36) 1,2-Dichloropropane-d6	6.34	67	123854	49.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.46%
41) Toluene-d8	7.57	98	377648	50.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.90%
43) trans-1,3-Dichloropropene-	7.85	79	65206	51.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.50%
47) 2-Hexanone-d5	8.31	63	117637	112.80	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.80%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	176299	50.61	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.22%
64) 1,2-Dichlorobenzene-d4	11.86	152	162637	49.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	128616	41.23	ug/L	99
3) Chloromethane	1.33	50	102553	45.53	ug/L	98
5) Vinyl chloride	1.40	62	110185	44.60	ug/L	100
6) Bromomethane	1.63	94	47690	55.50	ug/L	99
8) Chloroethane	1.70	64	65138	44.77	ug/L	98
9) Trichlorofluoromethane	1.89	101	156171	44.39	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	91545	46.46	ug/L	99
12) 1,1-Dichloroethene	2.28	96	84626	47.37	ug/L	99
13) Acetone	2.32	43	109509	66.87	ug/L	98
14) Carbon disulfide	2.48	76	257847	44.32	ug/L	100
15) Methyl Acetate	2.62	43	119350	52.72	ug/L	100
16) Methylene chloride	2.70	84	102302	45.97	ug/L	98
17) trans-1,2-Dichloroethene	2.99	96	95053	46.21	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	326462	48.73	ug/L	99
19) 1,1-Dichloroethane	3.45	63	183964	47.01	ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	111158	47.87	ug/L	95
22) 2-Butanone	4.27	43	161698	88.69	ug/L	99

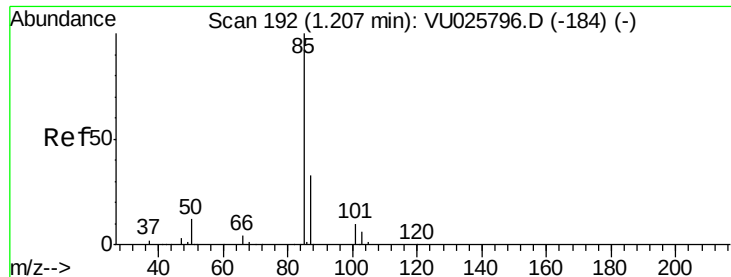
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080218\
 Data File : VU025810.D
 Acq On : 02 Aug 2018 23:09
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Quant Time: Aug 03 06:53:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 03 05:43:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	57454	46.88	ug/L	99
25) Chloroform	4.68	83	196921	47.82	ug/L	100
27) 1,2-Dichloroethane	5.41	62	162081	48.26	ug/L	97
29) Cyclohexane	5.00	56	155373	44.50	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	177862	47.16	ug/L	99
31) Carbon tetrachloride	5.14	117	159114	45.63	ug/L	99
33) Benzene	5.39	78	436716	50.43	ug/L	100
34) Trichloroethene	6.19	95	109098	47.48	ug/L	98
35) Methylcyclohexane	6.42	83	155250	41.90	ug/L	98
37) 1,2-Dichloropropane	6.44	63	110922	46.87	ug/L	100
38) Bromodichloromethane	6.76	83	150321	48.18	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	168433	45.86	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	324711	104.49	ug/L	100
42) Toluene	7.64	91	439414	47.05	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	166065	47.96	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	106651	46.99	ug/L	97
46) Tetrachloroethene	8.23	164	90232	45.30	ug/L	98
48) 2-Hexanone	8.36	43	258976	98.62	ug/L	99
49) Dibromochloromethane	8.48	129	128503	48.26	ug/L	98
50) 1,2-Dibromoethane	8.59	107	116826	47.77	ug/L	98
51) Chlorobenzene	9.12	112	302165	48.06	ug/L	100
52) Ethylbenzene	9.25	91	496363	48.16	ug/L	100
53) m,p-Xylene	9.38	106	193637	49.05	ug/L	98
54) o-xylene	9.78	106	189948	47.41	ug/L	98
55) Styrene	9.80	104	325866	49.94	ug/L	99
56) Isopropylbenzene	10.17	105	500909	48.45	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	182052	49.72	ug/L	98
59) 1,2,3-Trichloropropane	10.50	75	136793	49.21	ug/L	99
61) Bromoform	9.96	173	97766	46.20	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	246494	47.64	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	254466	48.18	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	251858	46.46	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	42000	49.26	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	184912	46.29	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	164961	49.14	ug/L	99
69) Naphthalene	13.74	128	525907	52.10	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	172770	48.69	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 41.23 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

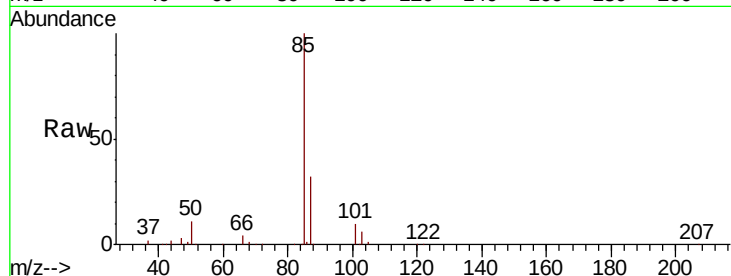
VSTD05049

Tot Ion: 85 Resp: 128616

Ion Ratio Lower Upper

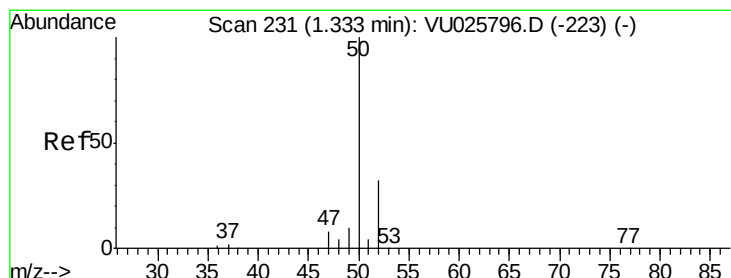
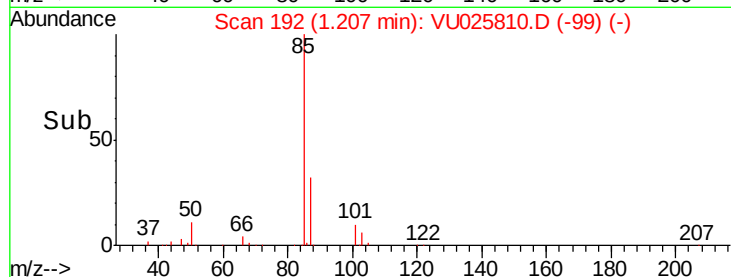
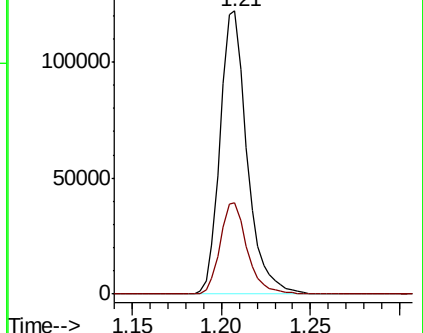
85 100

87 32.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU025810.D (-99) (-)

Ion 87.00 (86.70 to 87.70): VU025810.D (-99) (-)



#3

Chloromethane

Concen: 45.53 ug/L

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025810.D

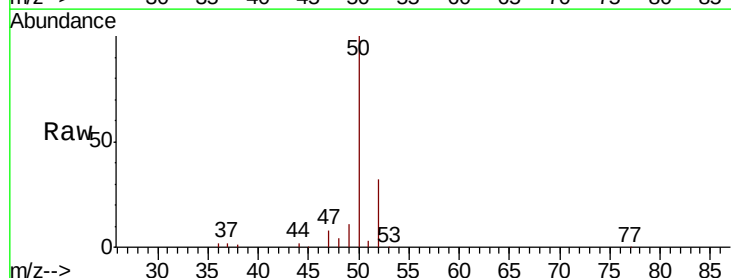
Acq: 02 Aug 2018 23:09

Tgt Ion: 50 Resp: 102553

Ion Ratio Lower Upper

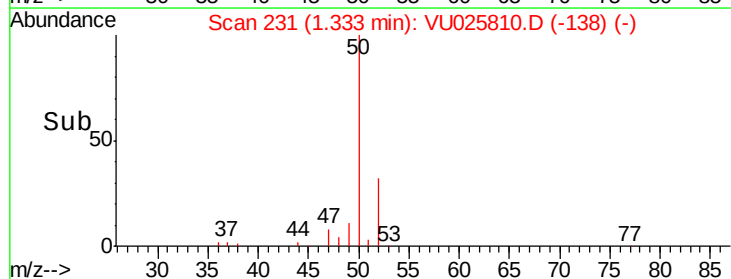
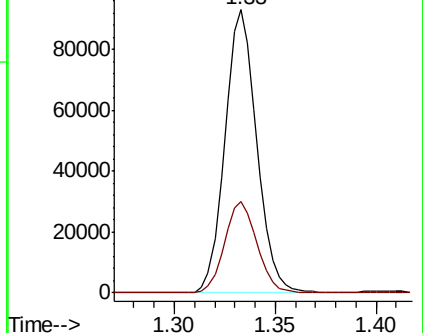
50 100

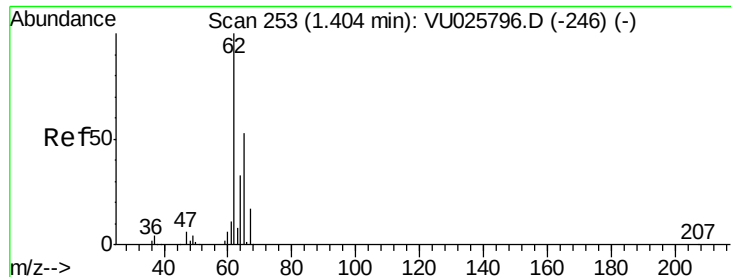
52 32.2 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU025810.D (-138) (-)

Ion 52.00 (51.70 to 52.70): VU025810.D (-138) (-)





#5

Vinyl chloride

Concen: 44.60 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

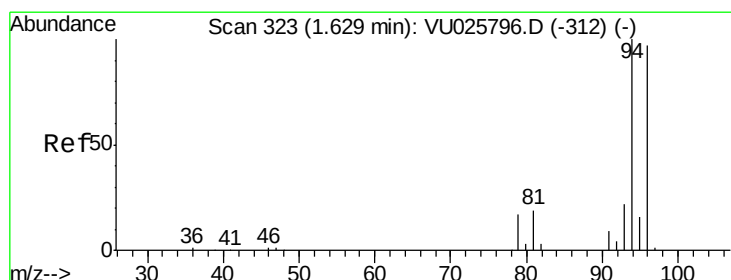
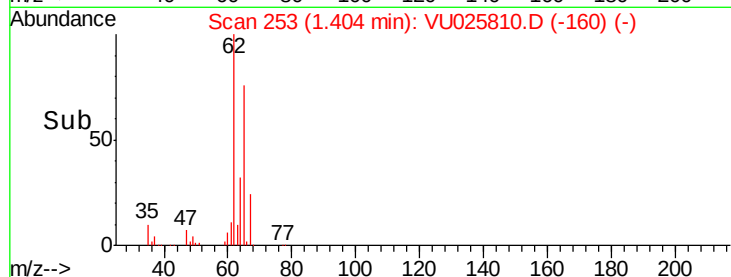
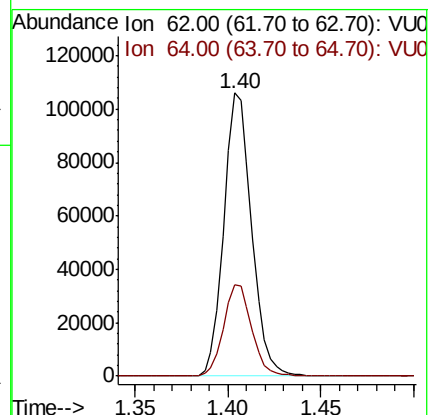
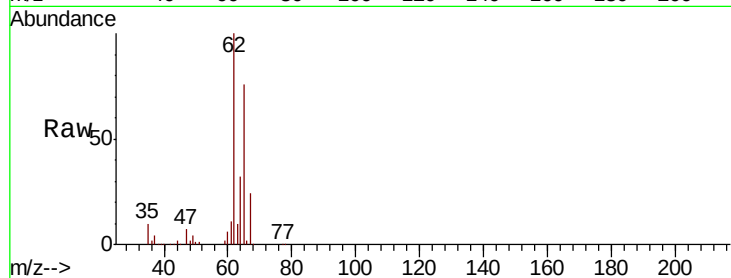
VSTD05049

Tot Ion: 62 Resp: 110185

Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



#6

Bromomethane

Concen: 55.50 ug/L

RT: 1.63 min Scan# 322

Delta R.T. -0.00 min

Lab File: VU025810.D

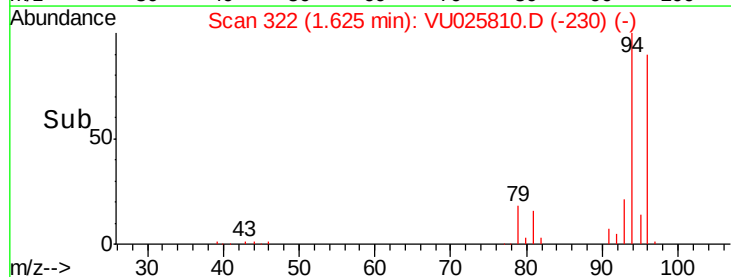
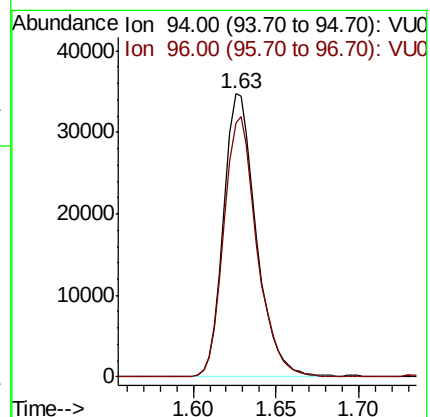
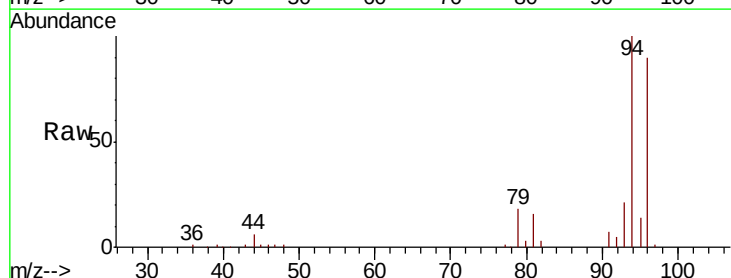
Acq: 02 Aug 2018 23:09

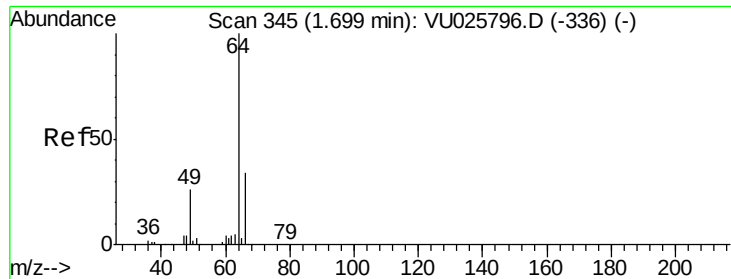
Tgt Ion: 94 Resp: 47690

Ion Ratio Lower Upper

94 100

96 89.7 62.4 115.8





#8

Chloroethane

Concen: 44.77 ug/L

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

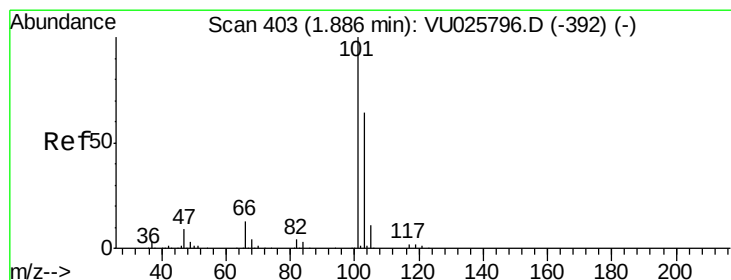
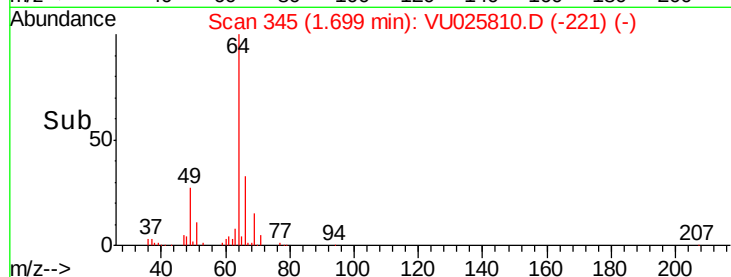
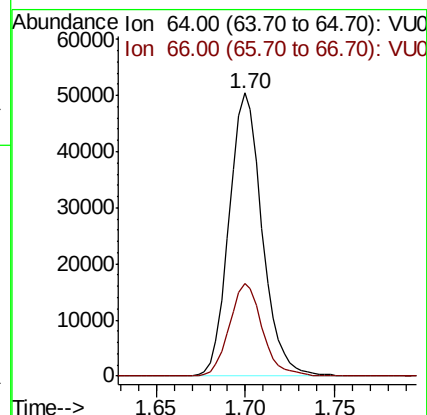
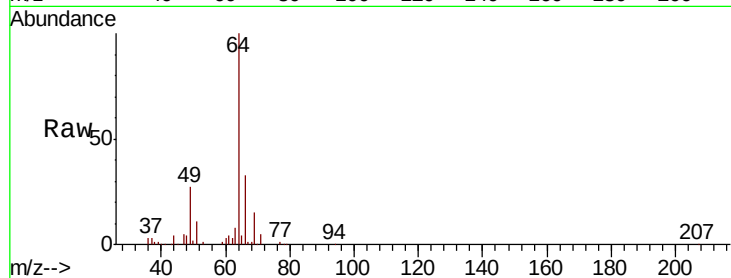
VSTD05049

Tot Ion: 64 Resp: 65138

Ion Ratio Lower Upper

64 100

66 32.6 23.5 43.7



#9

Trichlorofluoromethane

Concen: 44.39 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU025810.D

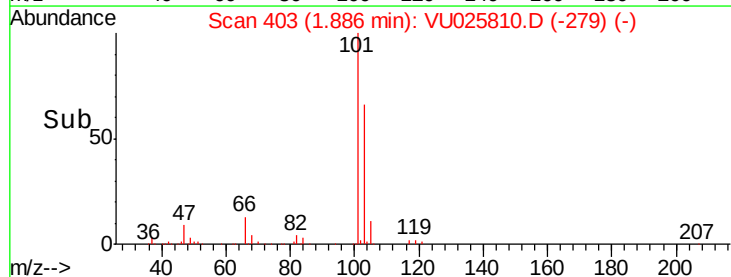
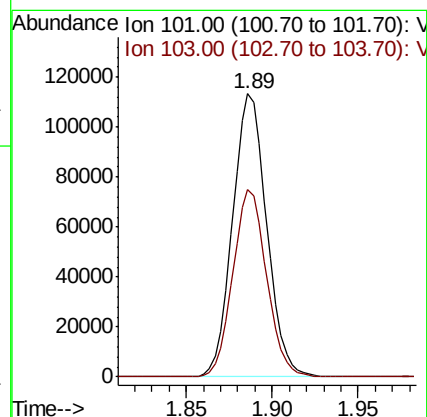
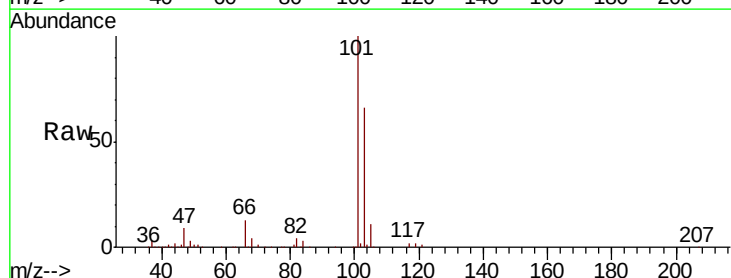
Acq: 02 Aug 2018 23:09

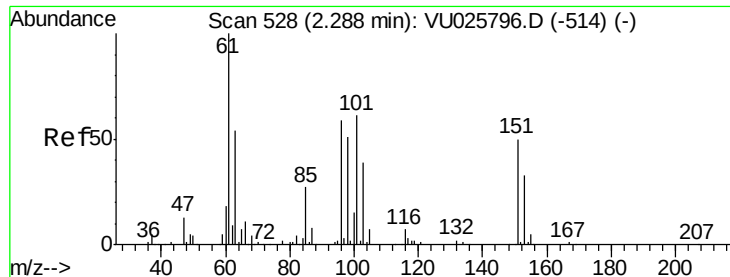
Tgt Ion: 101 Resp: 156171

Ion Ratio Lower Upper

101 100

103 65.5 52.0 78.0





#10

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

Concen: 46.46 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

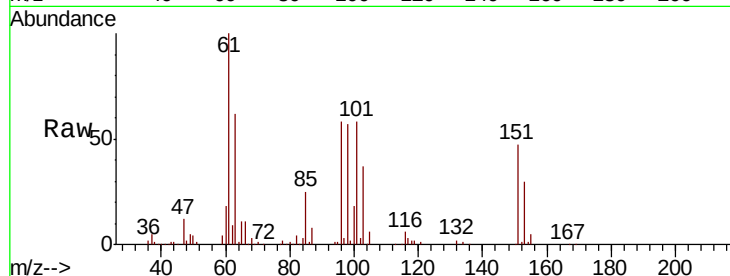
Tot Ion:101 Resp: 91545

Ion Ratio Lower Upper

101 100

85 43.6 35.5 53.3

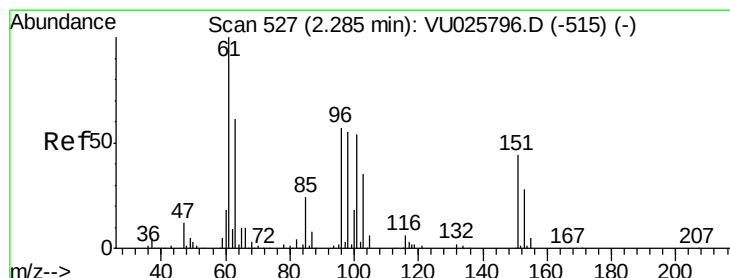
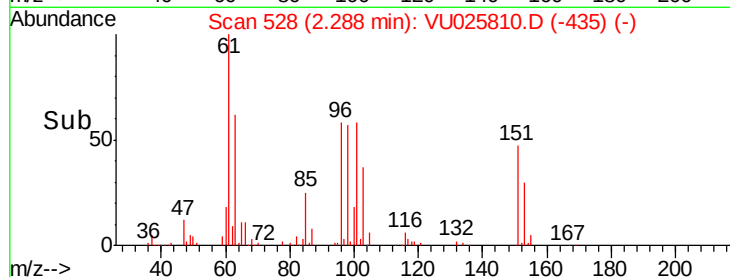
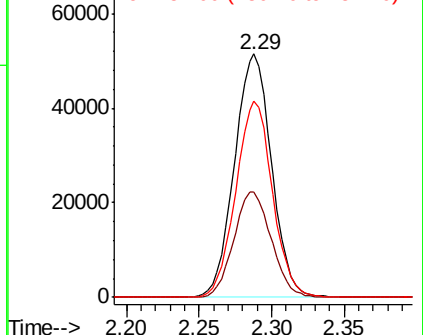
151 79.7 63.5 95.3



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: 47.37 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

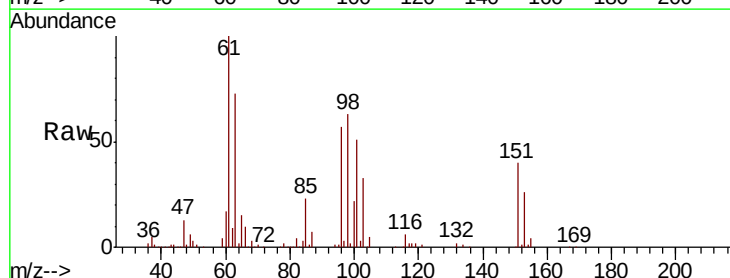
Tgt Ion: 96 Resp: 84626

Ion Ratio Lower Upper

96 100

61 174.9 122.5 227.5

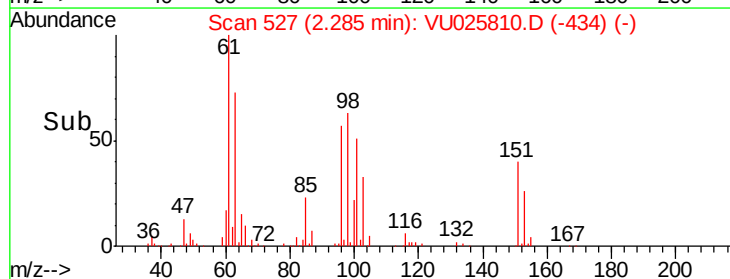
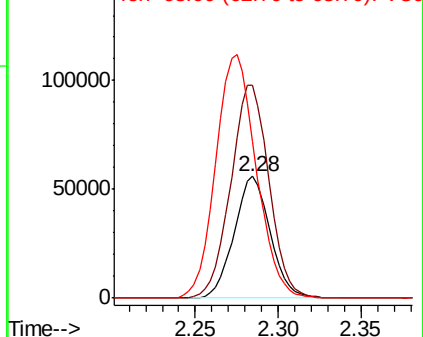
63 128.4 90.9 168.9

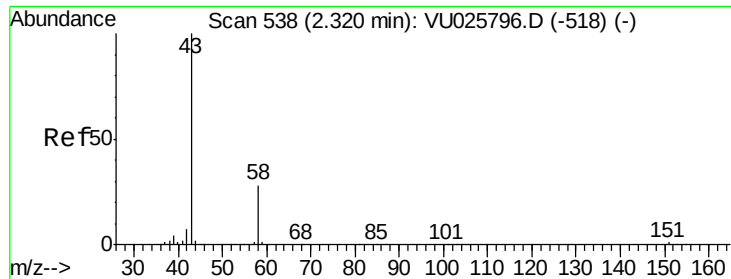


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 66.87 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

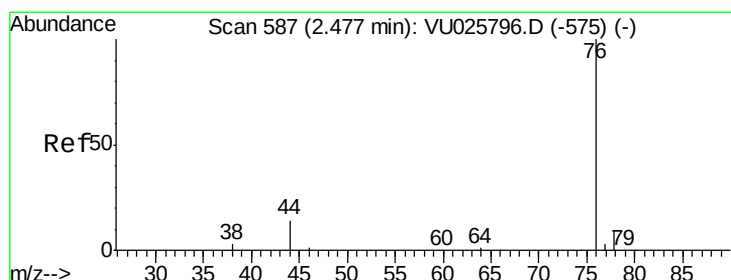
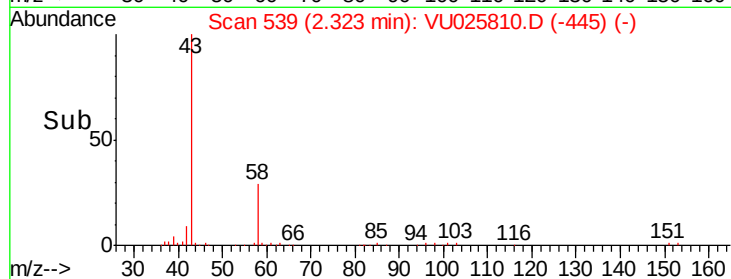
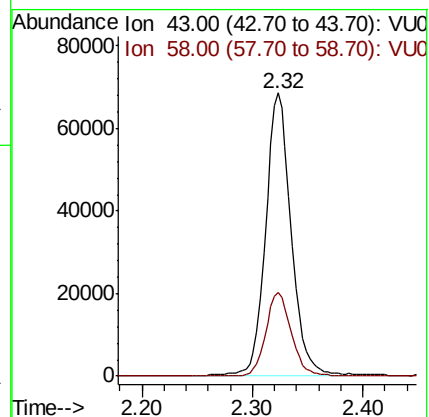
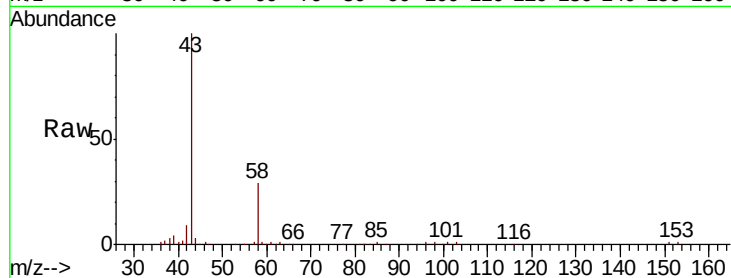
VSTD05049

Tot Ion: 43 Resp: 109509

Ion Ratio Lower Upper

43 100

58 29.8 0.0 61.2



#14

Carbon disulfide

Concen: 44.32 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025810.D

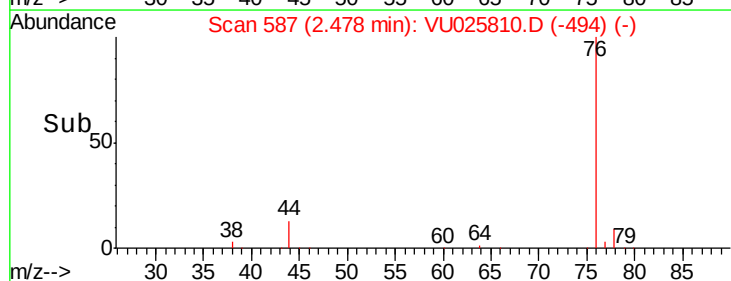
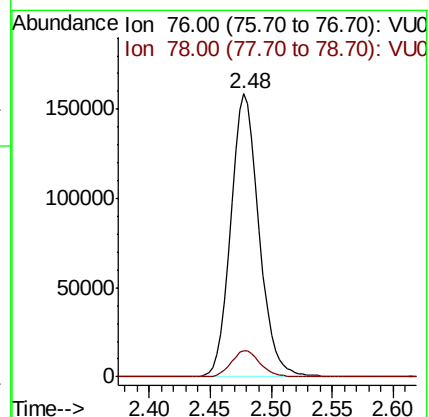
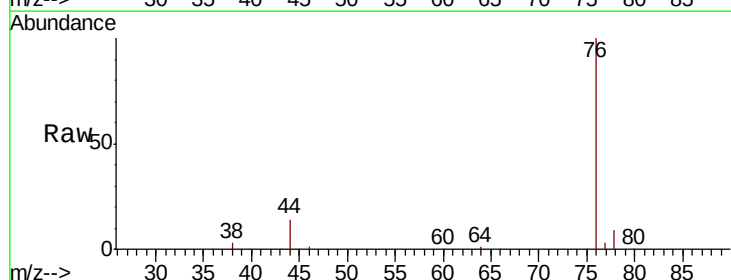
Acq: 02 Aug 2018 23:09

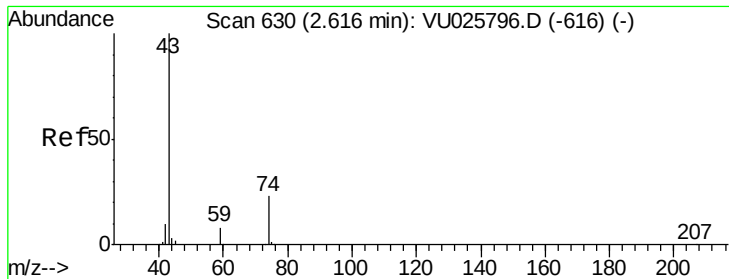
Tgt Ion: 76 Resp: 257847

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0

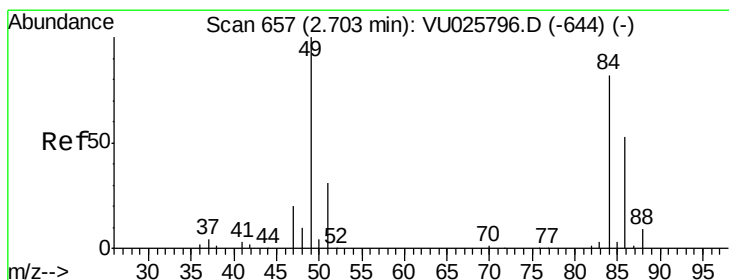
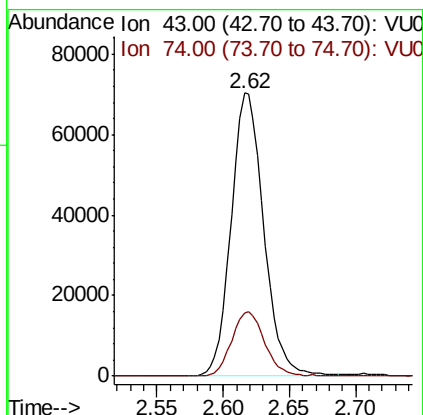
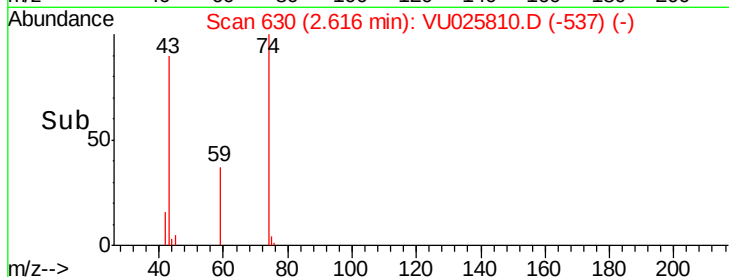
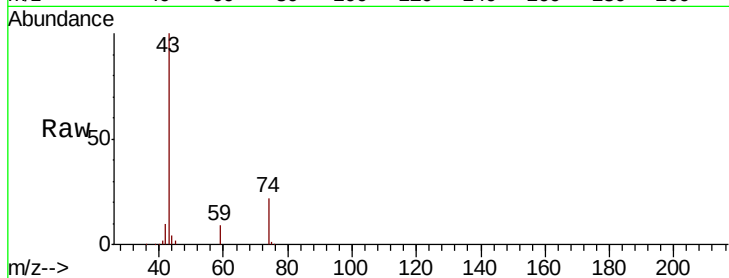




#15
Methvl Acetate
Concen: 52.72 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

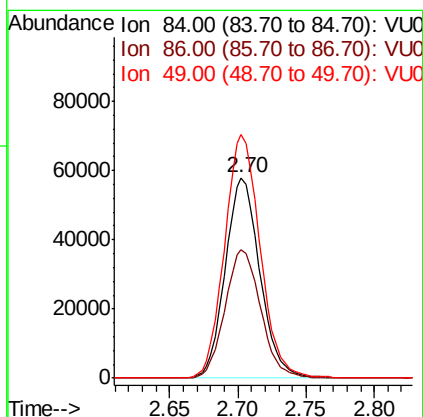
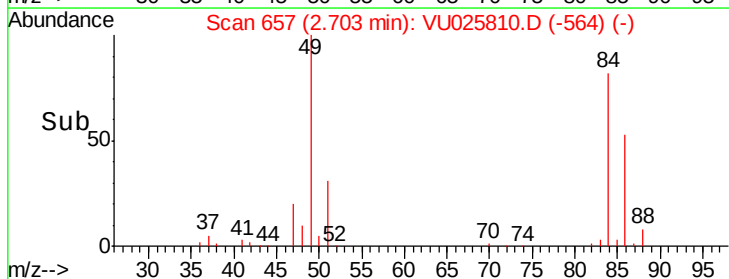
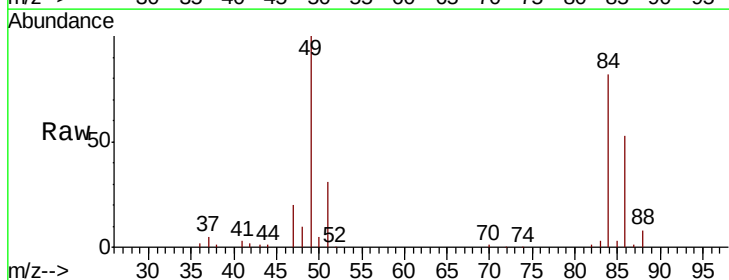
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

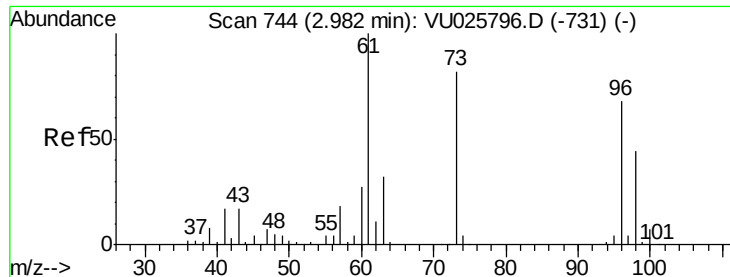
Tot Ion: 43 Resp: 119350
Ion Ratio Lower Upper
43 100
74 23.0 18.3 27.5



#16
Methylene chloride
Concen: 45.97 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

Tgt Ion: 84 Resp: 102302
Ion Ratio Lower Upper
84 100
86 64.0 45.6 84.6
49 121.4 87.0 161.6

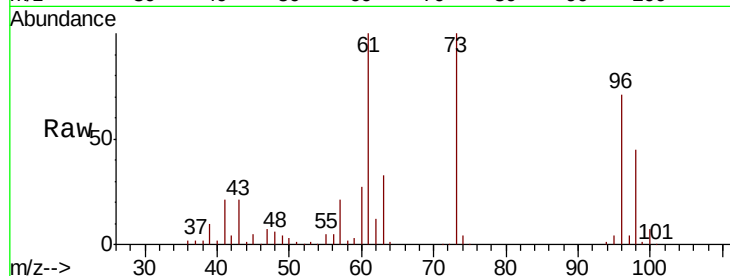




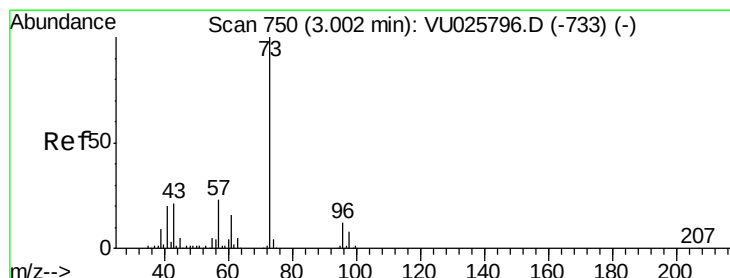
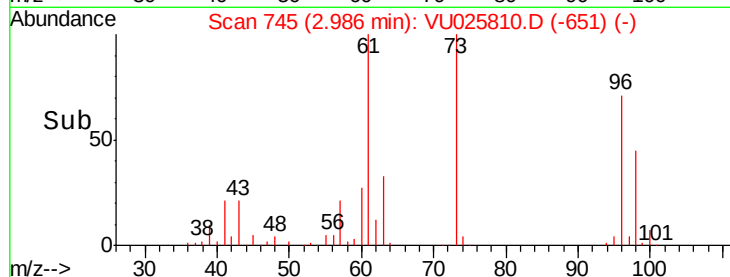
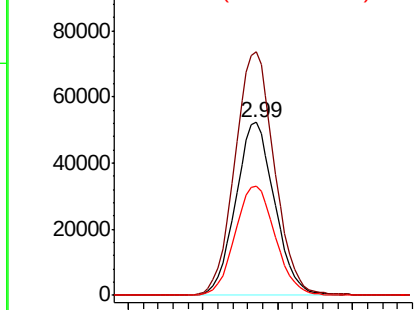
#17
trans-1,2-Dichloroethene
Concen: 46.21 ug/L
RT: 2.99 min Scan# 745
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tot Ion: 96 Resp: 95053
Ion Ratio Lower Upper
96 100
61 140.8 100.0 185.8
98 63.3 44.7 83.1

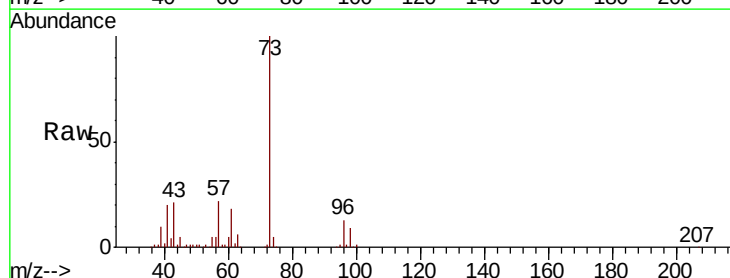


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

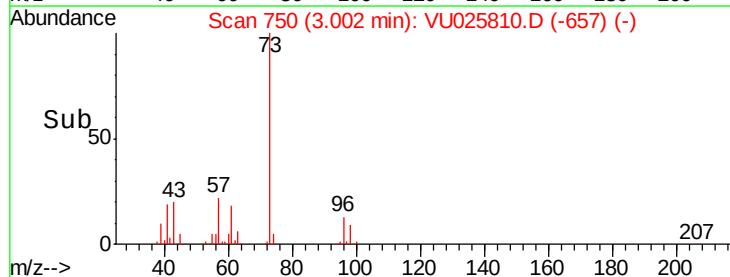
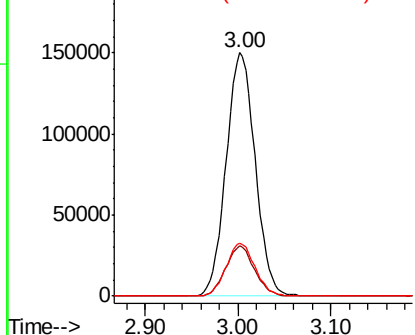


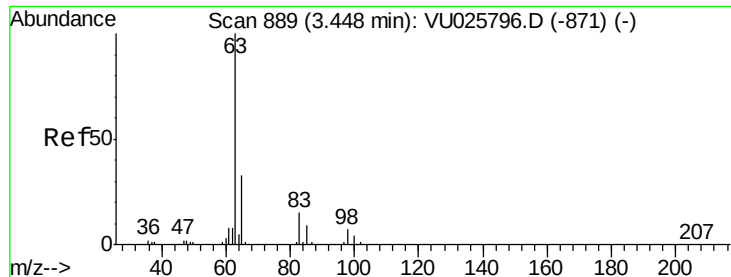
#18
Methyl tert-butyl Ether
Concen: 48.73 ug/L
RT: 3.00 min Scan# 750
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

Tgt Ion: 73 Resp: 326462
Ion Ratio Lower Upper
73 100
43 20.5 16.2 24.2
57 21.6 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

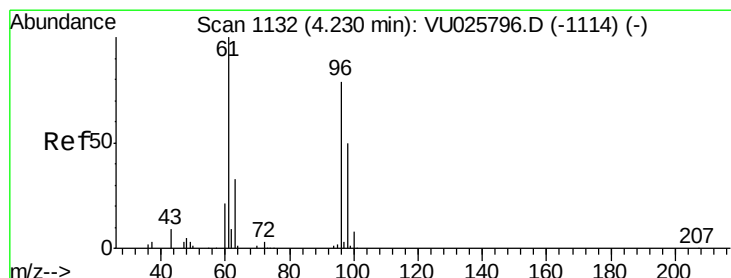
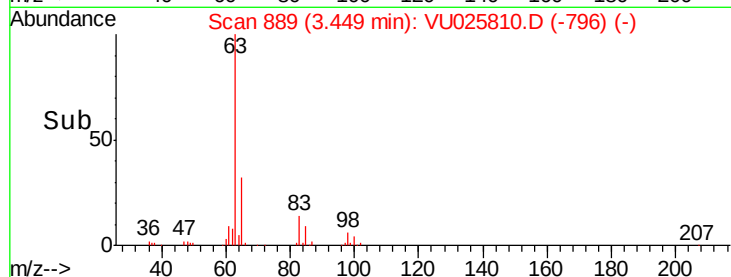
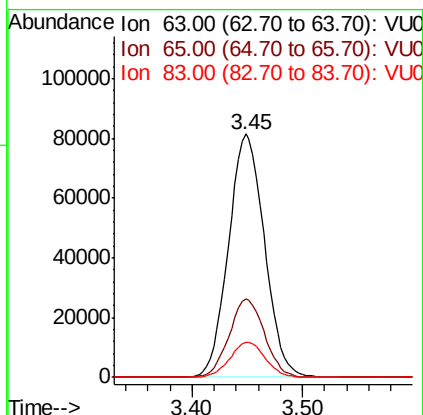
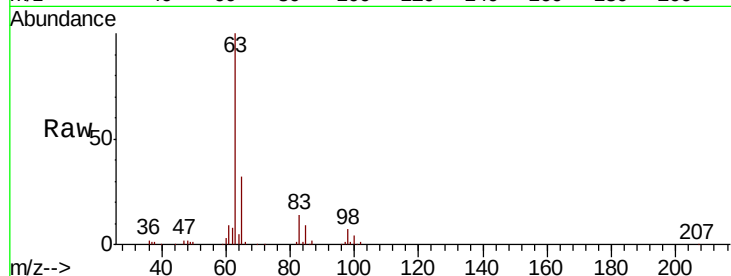




#19
 1,1-Dichloroethane
 Concen: 47.01 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

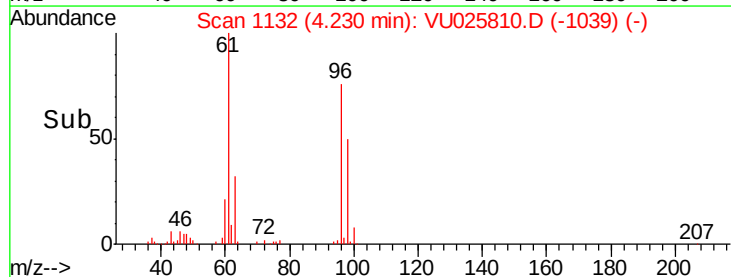
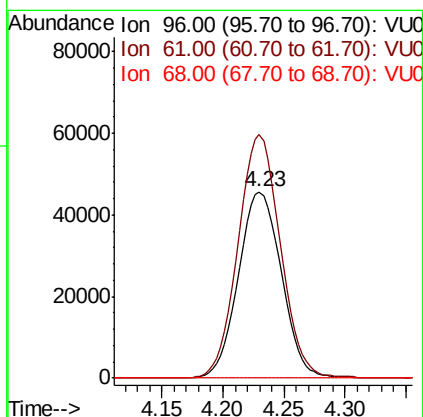
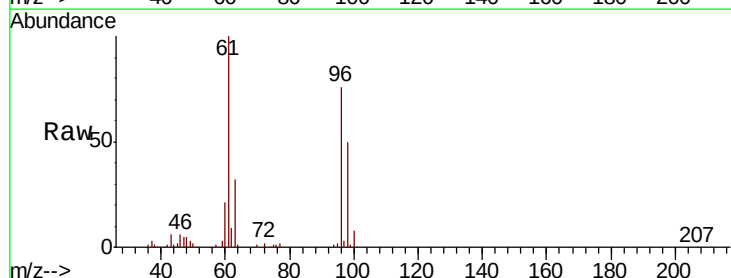
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

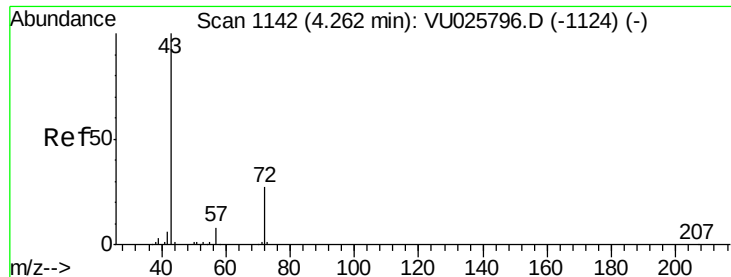
Tot Ion	Ratio	Lower	Upper
63	100		
65	32.2	22.0	41.0
83	14.2	9.6	17.8



#20
 cis-1,2-Dichloroethene
 Concen: 47.87 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.7	87.4	162.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 88.69 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

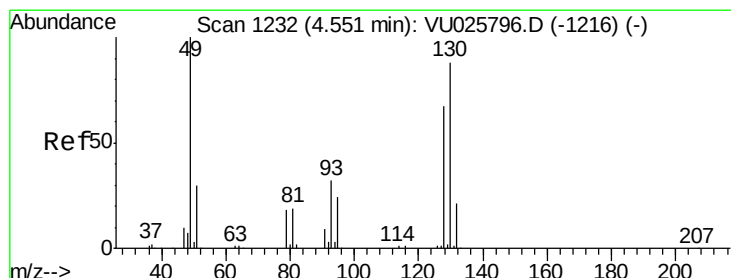
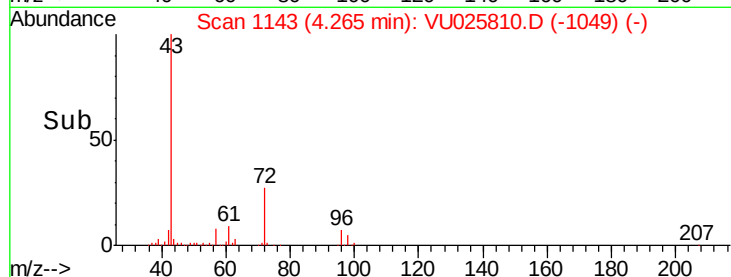
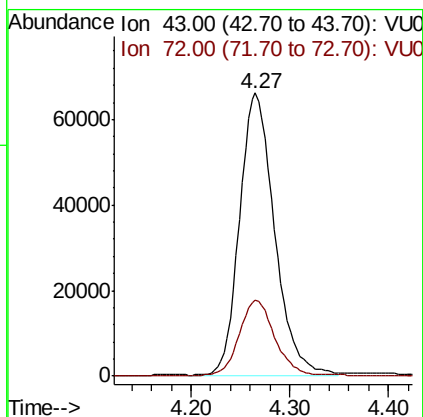
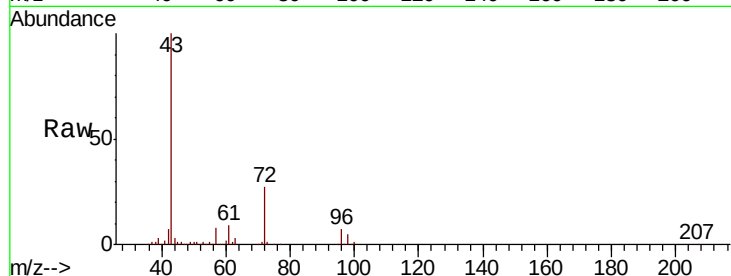
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tot Ion: 43 Resp: 161698

Ion Ratio Lower Upper

43 100

72 27.5 13.6 40.8



#23

Bromochloromethane

Concen: 46.88 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Tgt Ion: 128 Resp: 57454

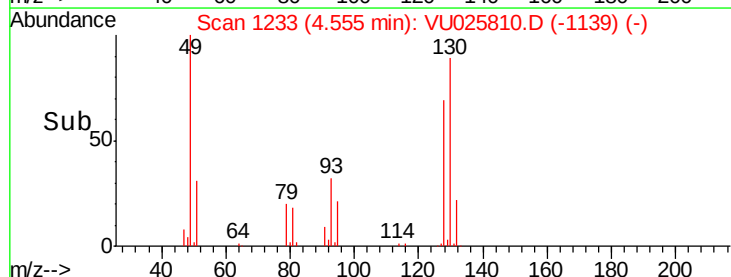
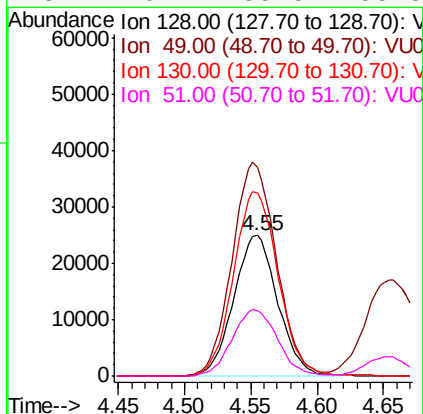
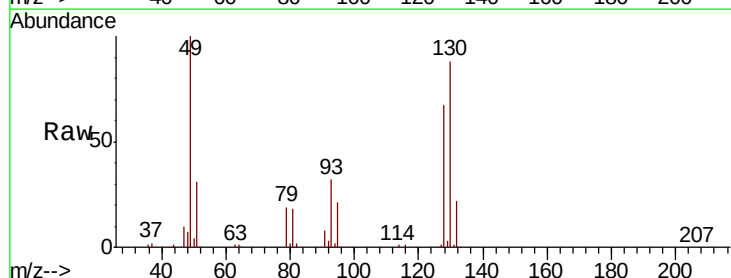
Ion Ratio Lower Upper

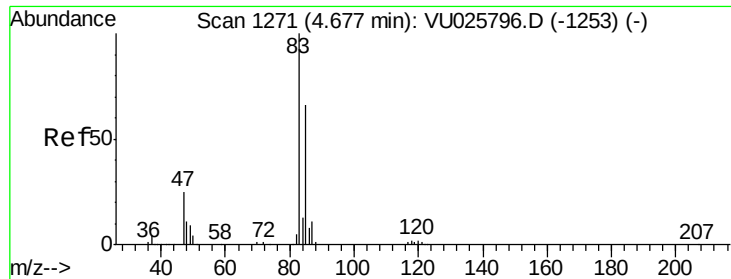
128 100

49 148.6 103.3 191.8

130 130.2 90.4 167.8

51 46.7 35.5 53.3





#25

Chloroform

Concen: 47.82 ug/L

RT: 4.68 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

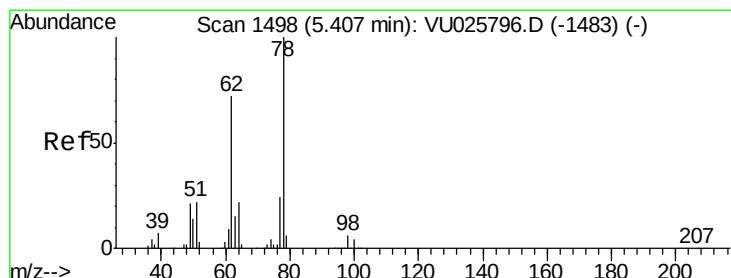
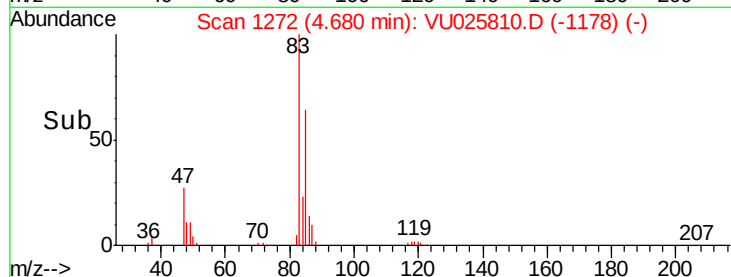
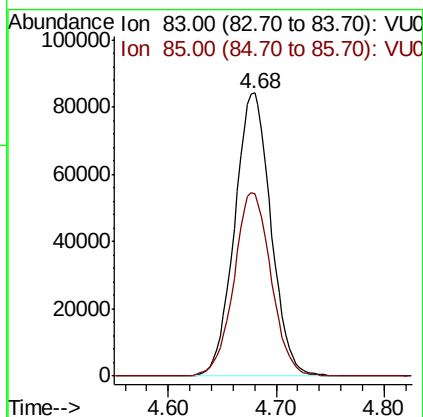
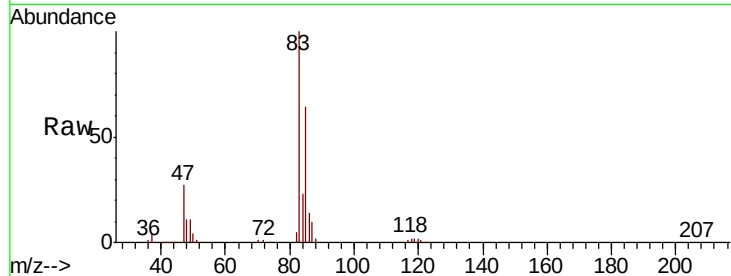
VSTD05049

Tot Ion: 83 Resp: 196921

Ion Ratio Lower Upper

83 100

85 64.2 45.0 83.6



#27

1,2-Dichloroethane

Concen: 48.26 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU025810.D

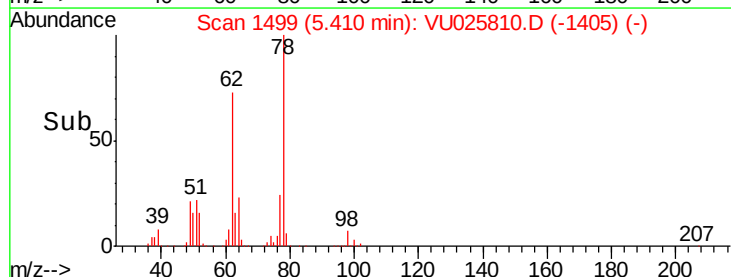
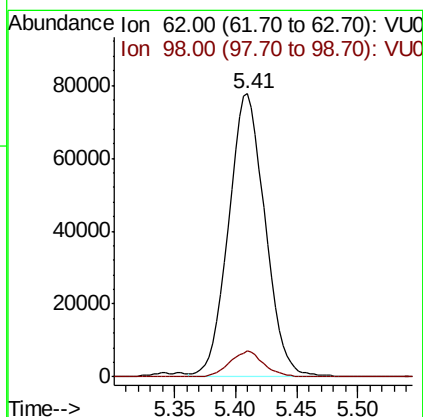
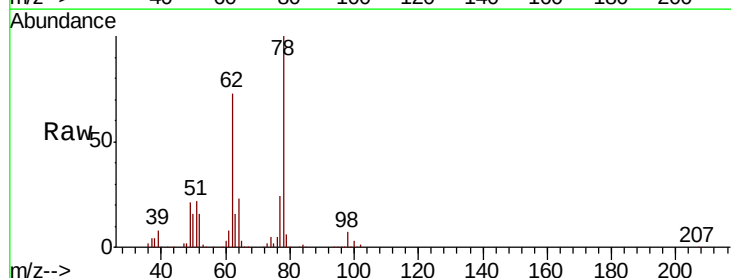
Acq: 02 Aug 2018 23:09

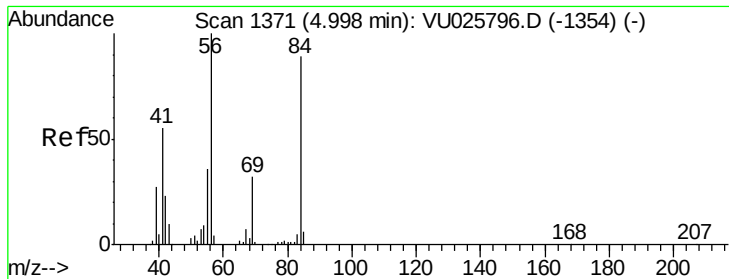
Tgt Ion: 62 Resp: 162081

Ion Ratio Lower Upper

62 100

98 9.0 6.5 9.7

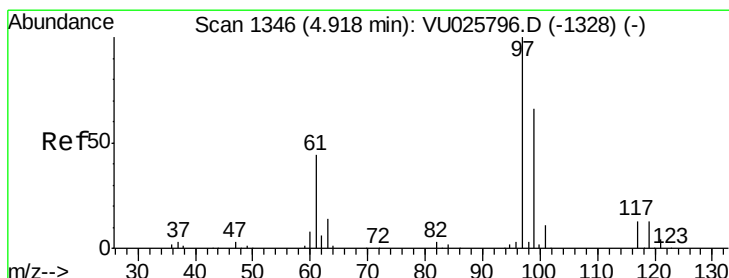
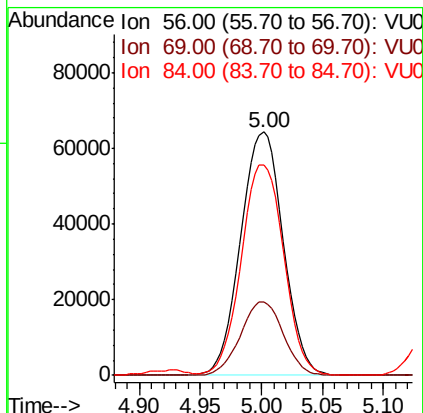
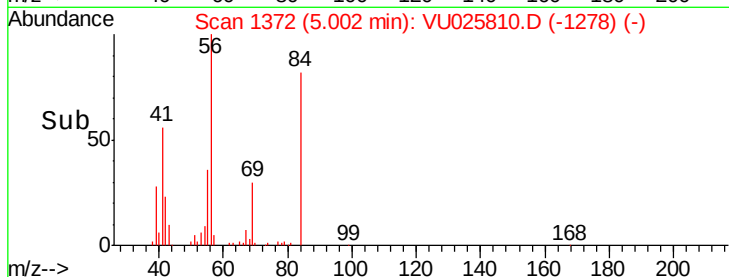
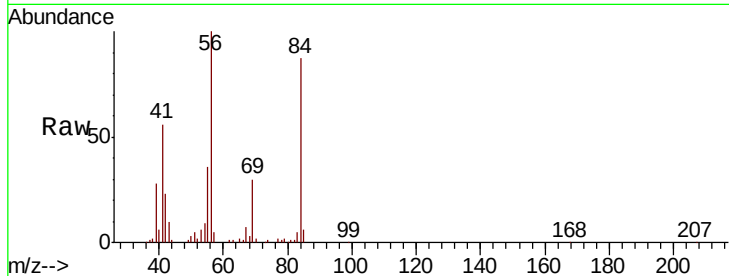




#29
Cyclohexane
Concen: 44.50 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

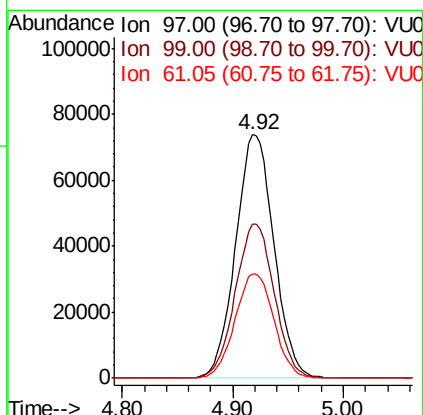
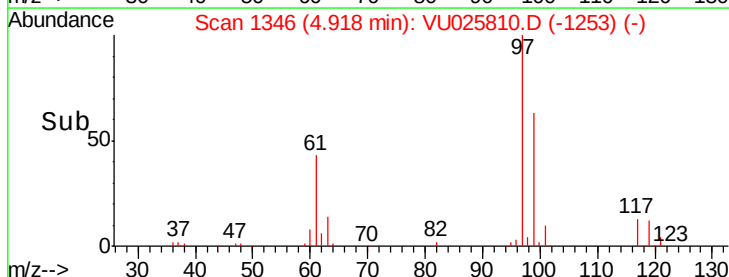
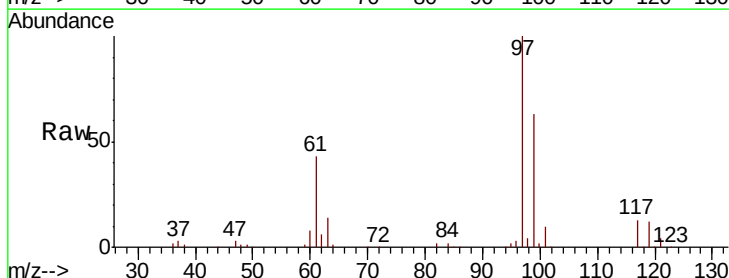
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

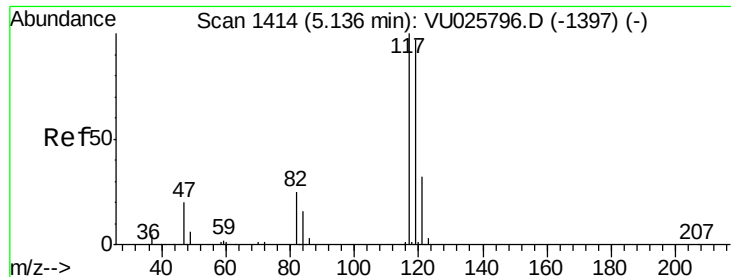
Tot Ion: 56 Resp: 155373
Ion Ratio Lower Upper
56 100
69 30.4 24.8 37.2
84 86.7 70.6 106.0



#30
1,1,1-Trichloroethane
Concen: 47.16 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

Tgt Ion: 97 Resp: 177862
Ion Ratio Lower Upper
97 100
99 64.2 52.4 78.6
61 43.5 34.6 52.0

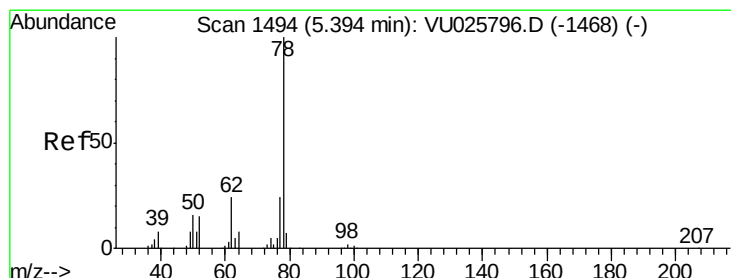
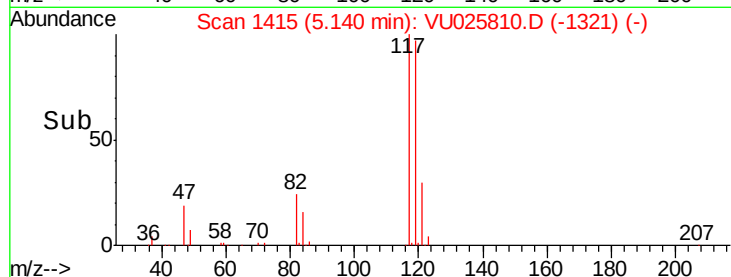
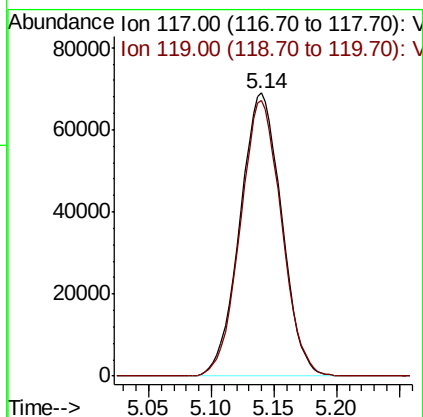
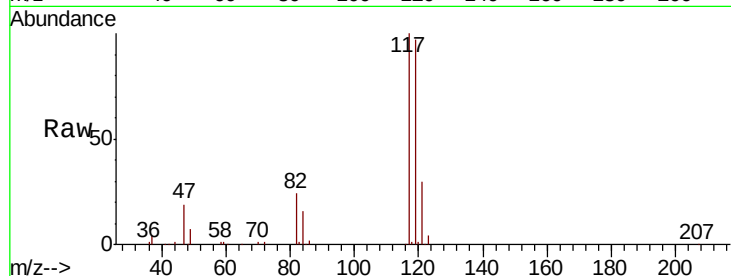




#31
Carbon tetrachloride
Concen: 45.63 ug/L
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

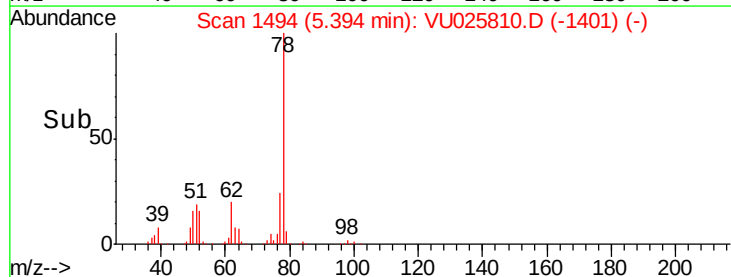
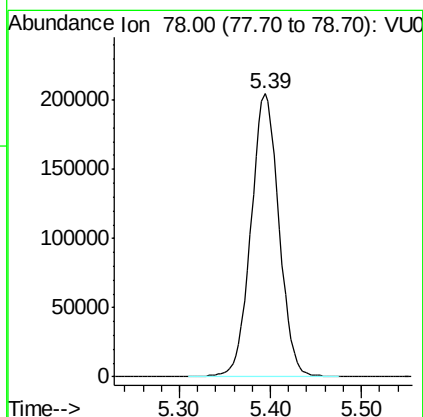
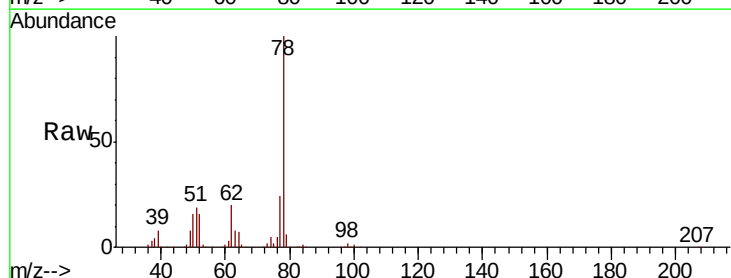
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

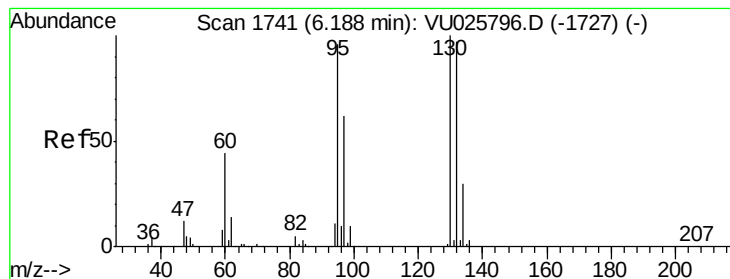
Tot Ion:117 Resp: 159114
Ion Ratio Lower Upper
117 100
119 96.4 76.6 114.8



#33
Benzene
Concen: 50.43 ug/L
RT: 5.39 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

Tgt Ion: 78 Resp: 436716





#34

Trichloroethene

Concen: 47.48 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tot Ion: 95 Resp: 109098

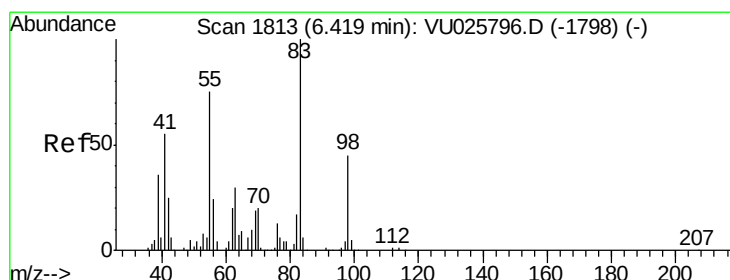
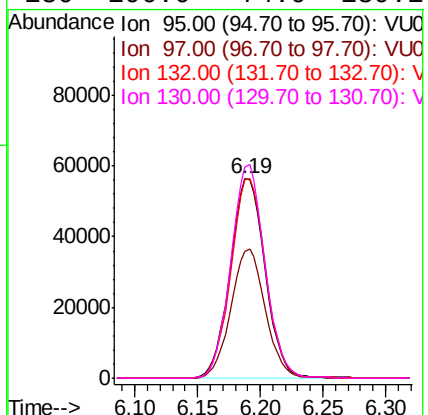
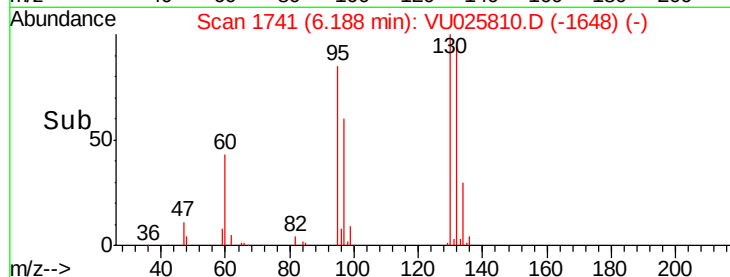
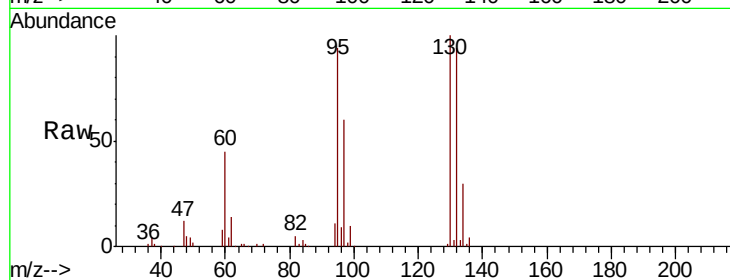
Ion Ratio Lower Upper

95 100

97 63.5 45.9 85.3

132 99.3 72.2 134.2

130 106.0 74.9 139.1



#35

Methylcyclohexane

Concen: 41.90 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

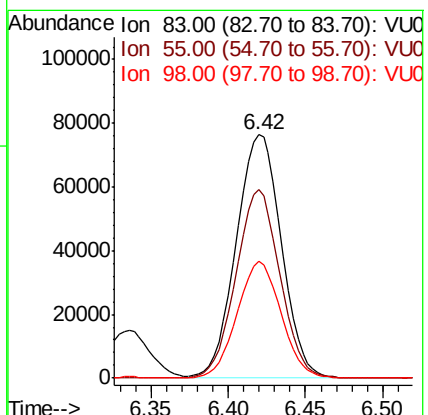
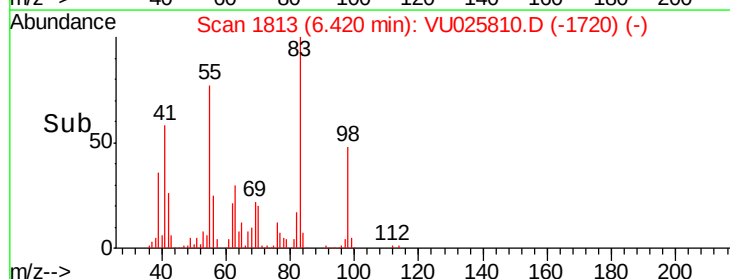
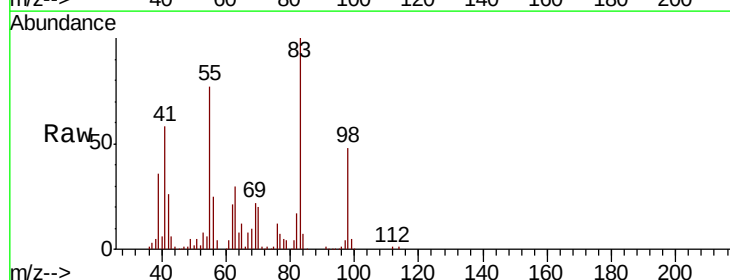
Tgt Ion: 83 Resp: 155250

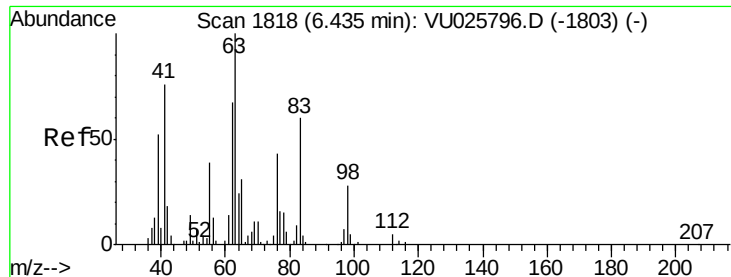
Ion Ratio Lower Upper

83 100

55 75.1 61.1 91.7

98 46.7 38.6 57.8

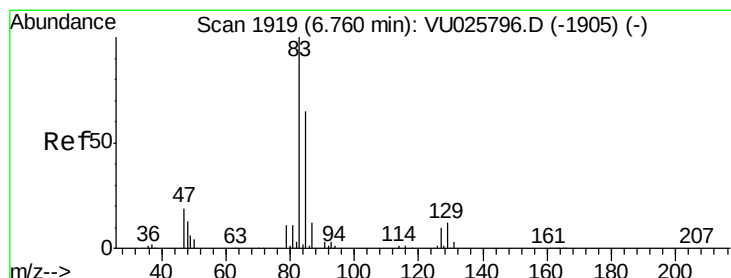
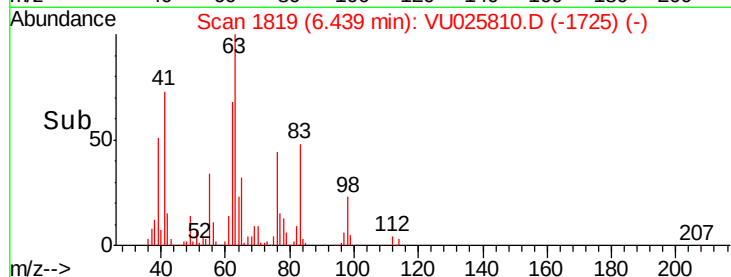
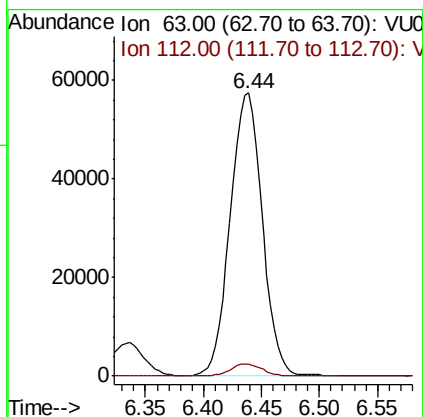
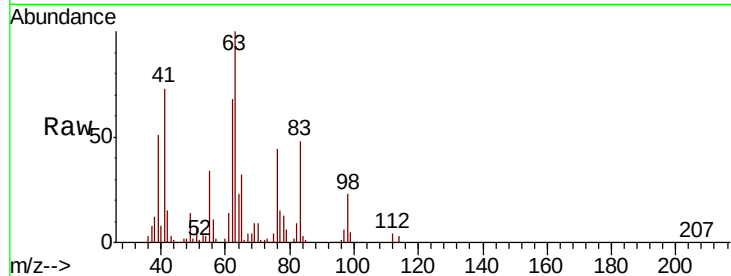




#37
 1,2-Dichloropropane
 Concen: 46.87 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

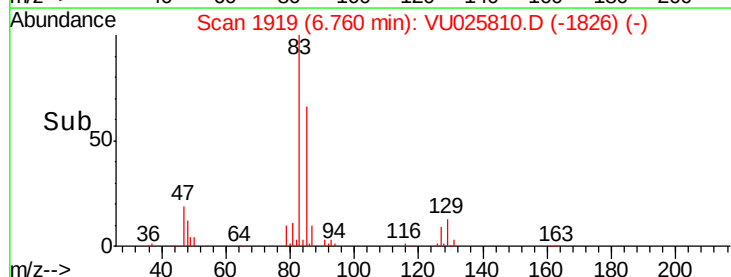
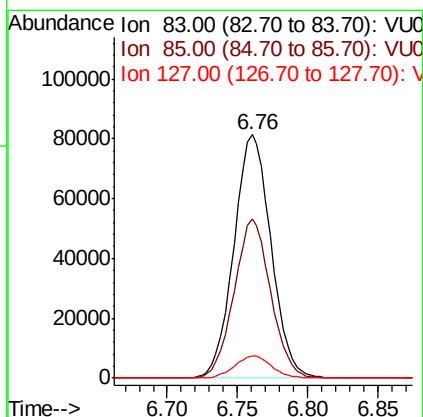
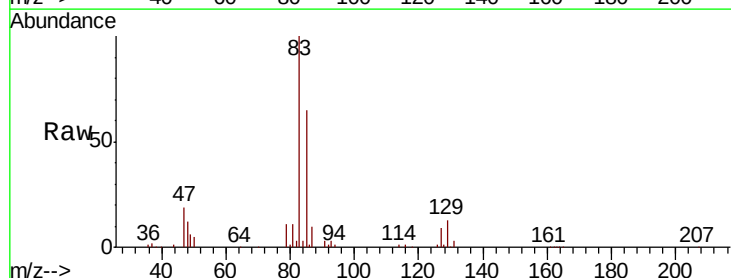
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

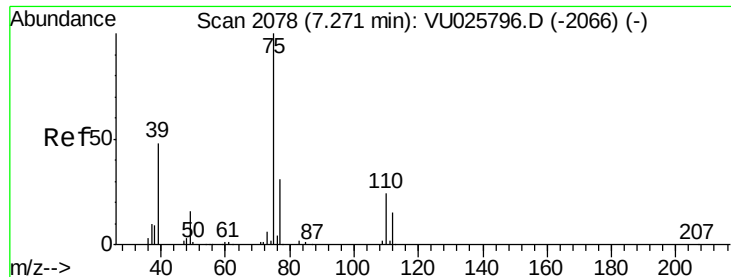
Tot Ion: 63 Resp: 110922
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#38
 Bromodichloromethane
 Concen: 48.18 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Tgt Ion: 83 Resp: 150321
 Ion Ratio Lower Upper
 83 100
 85 65.4 46.7 86.7
 127 9.2 8.0 12.0

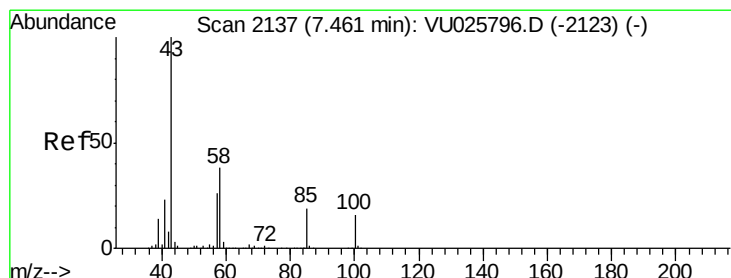
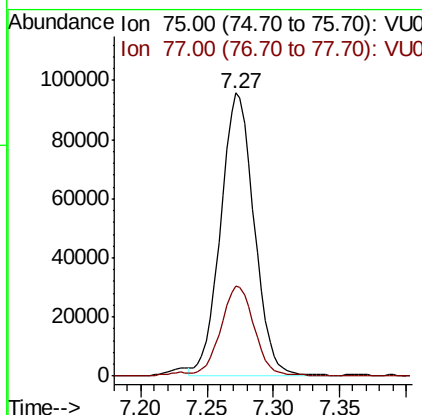
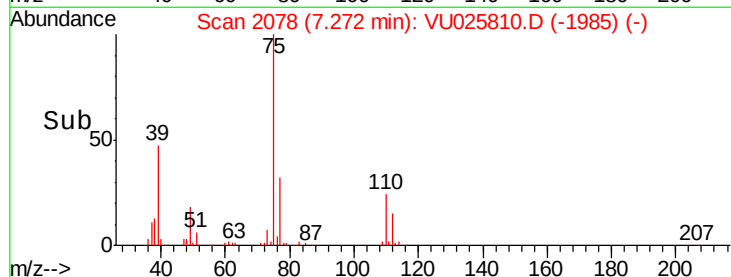
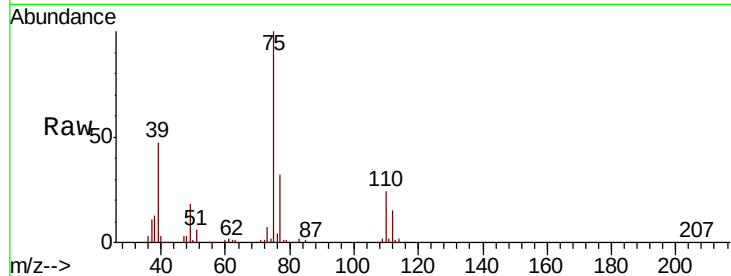




#39
 cis-1,3-Dichloropropene
 Concen: 45.86 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

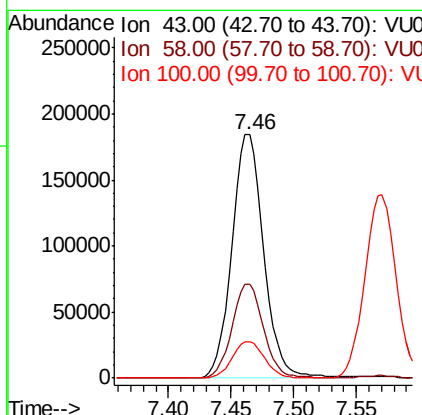
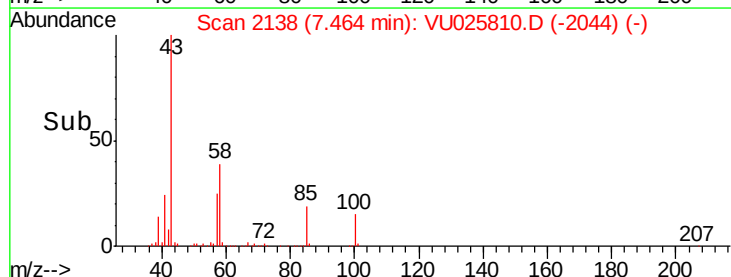
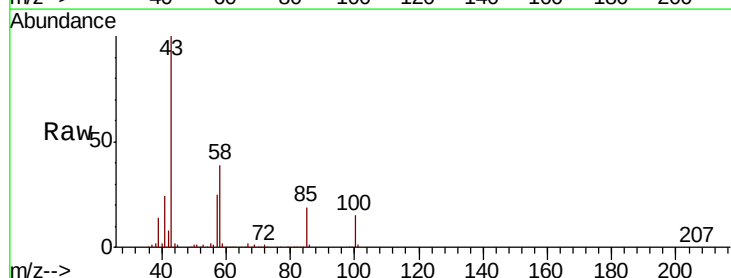
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05049

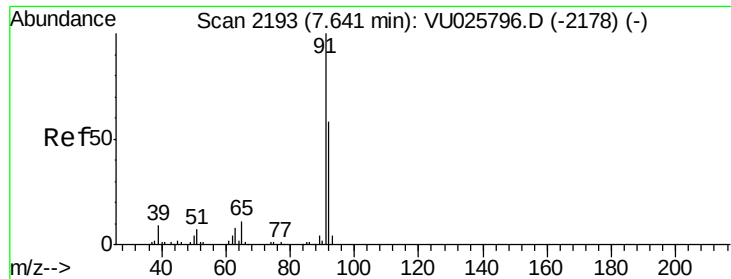
Tot Ion: 75 Resp: 168433
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 104.49 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Tgt Ion: 43 Resp: 324711
 Ion Ratio Lower Upper
 43 100
 58 38.5 30.8 46.2
 100 15.4 12.1 18.1





#42

Toluene

Concen: 47.05 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

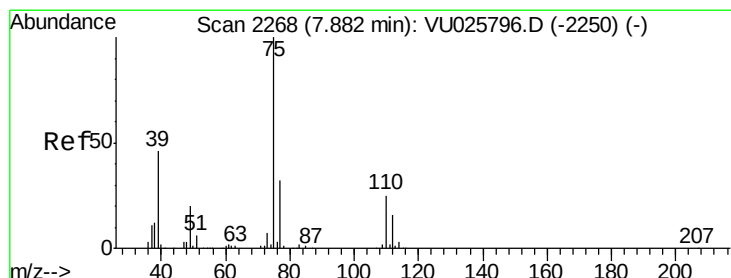
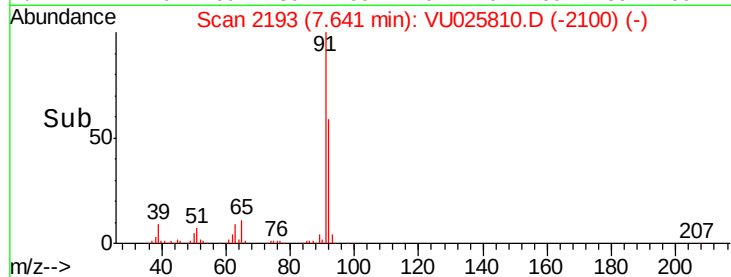
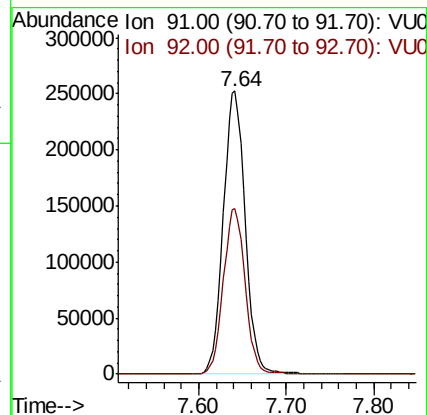
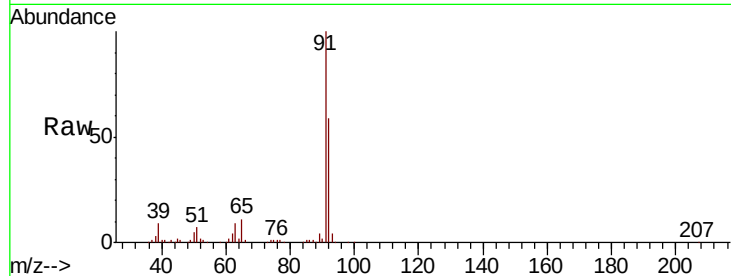
VSTD05049

Tot Ion: 91 Resp: 439414

Ion Ratio Lower Upper

91 100

92 58.6 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 47.96 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025810.D

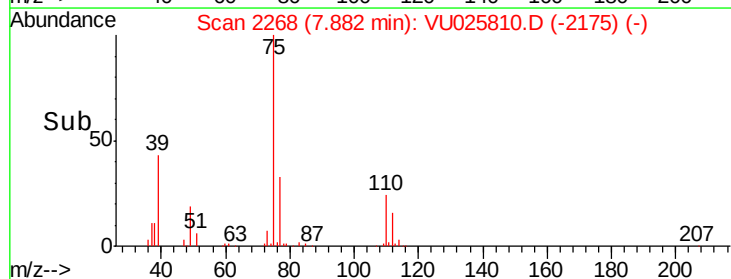
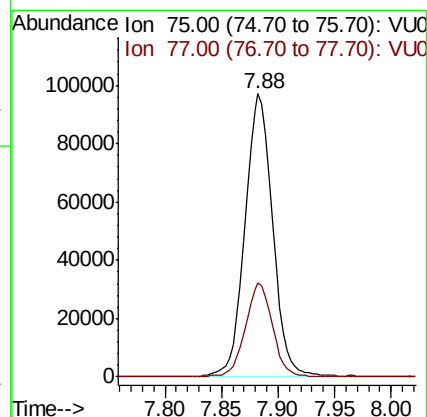
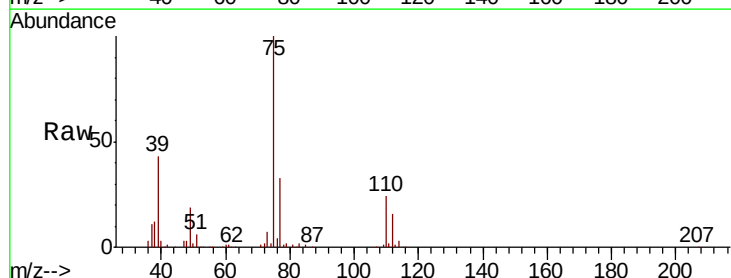
Acq: 02 Aug 2018 23:09

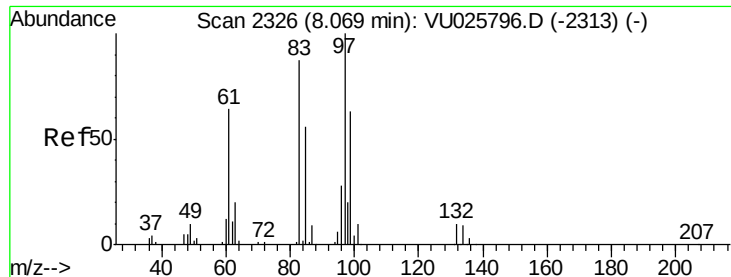
Tgt Ion: 75 Resp: 166065

Ion Ratio Lower Upper

75 100

77 33.3 22.2 41.2

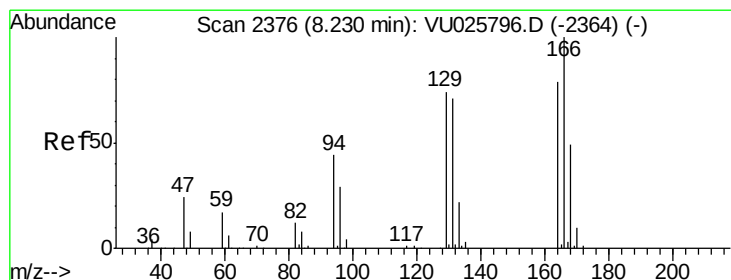
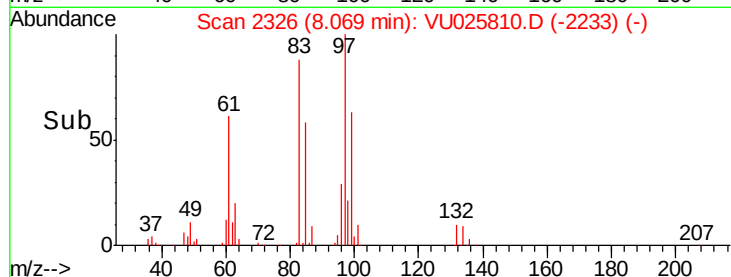
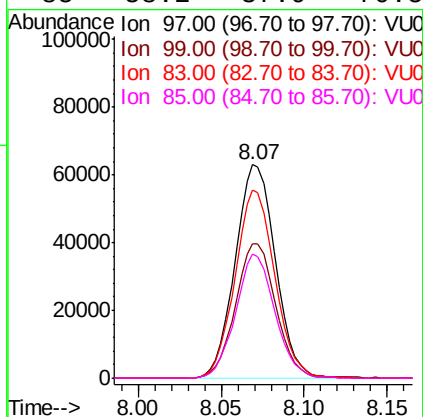
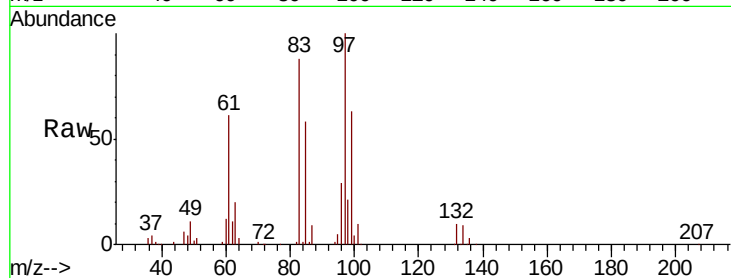




#45
 1,1,2-Trichloroethane
 Concen: 46.99 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

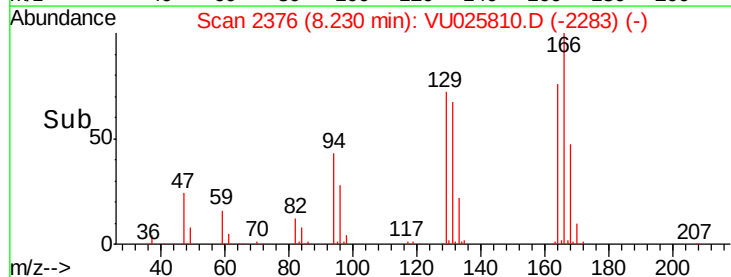
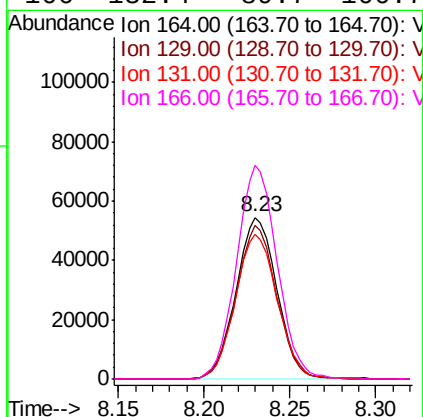
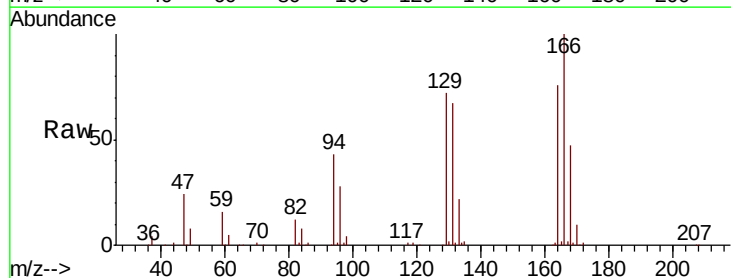
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

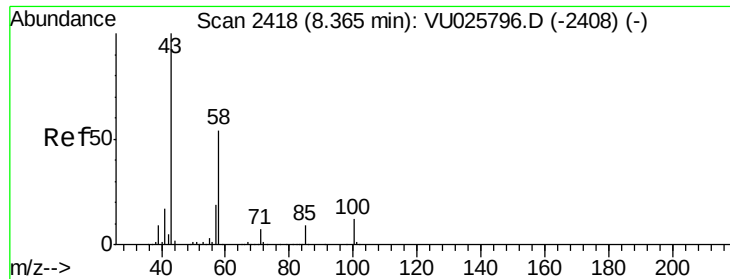
Tot Ion:	97	Resp:	106651
Ion	Ratio	Lower	Upper
97	100		
99	62.9	44.3	82.3
83	88.3	59.8	111.1
85	58.2	37.9	70.5



#46
 Tetrachloroethene
 Concen: 45.30 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Tgt Ion:	164	Resp:	90232
Ion	Ratio	Lower	Upper
164	100		
129	95.2	65.1	120.9
131	89.3	62.8	116.6
166	132.4	89.7	166.7

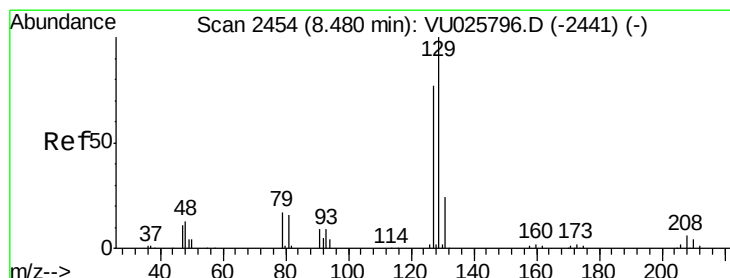
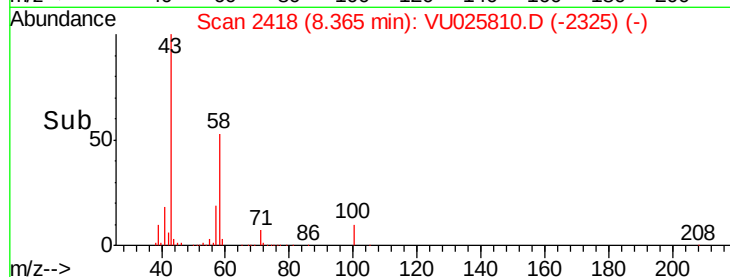
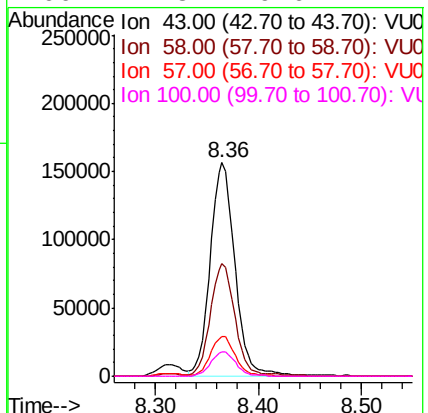
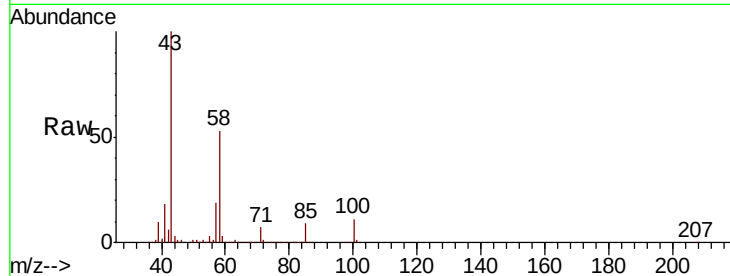




#48
2-Hexanone
Concen: 98.62 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

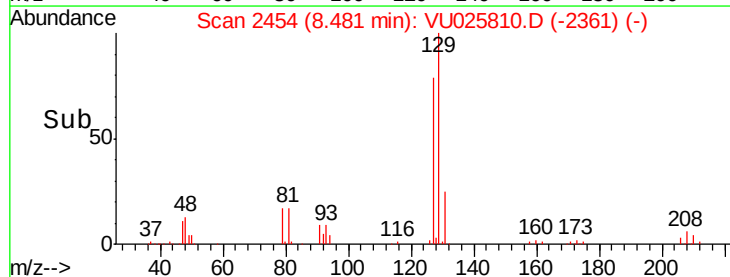
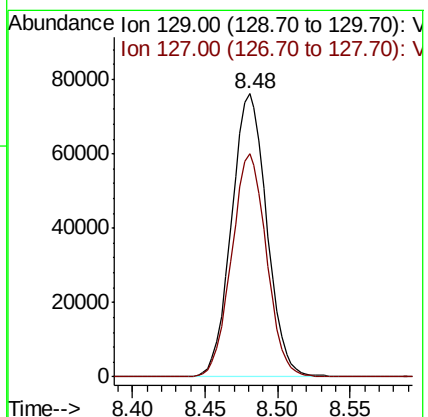
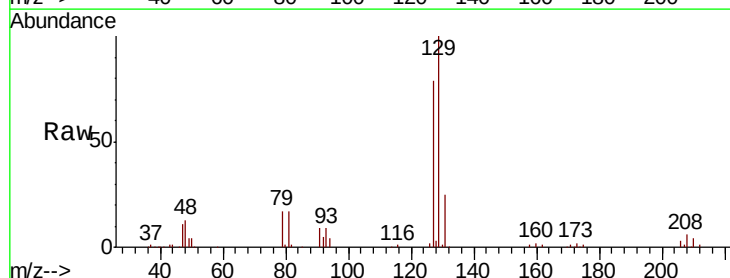
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

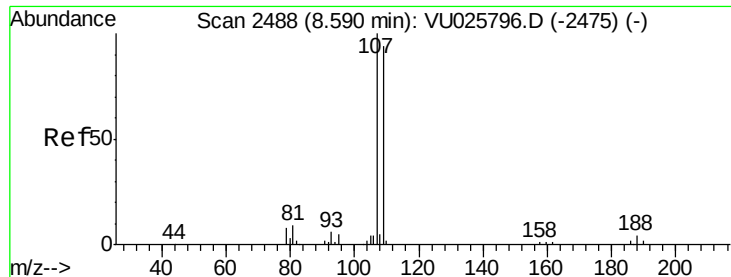
Tot Ion:	43	Resp:	258976
Ion	Ratio	Lower	Upper
43	100		
58	52.8	42.9	64.3
57	18.5	15.4	23.2
100	11.8	9.6	14.4



#49
Dibromochloromethane
Concen: 48.26 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025810.D
Acq: 02 Aug 2018 23:09

Tgt Ion:	129	Resp:	128503
Ion	Ratio	Lower	Upper
129	100		
127	79.0	53.8	100.0

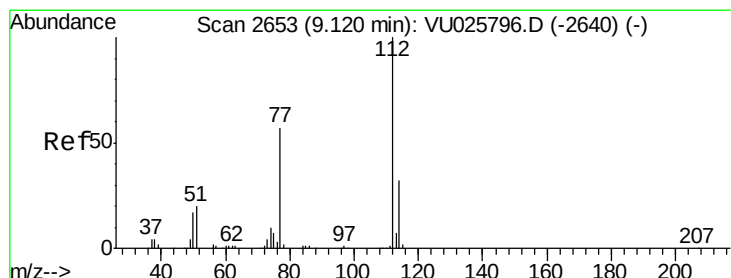
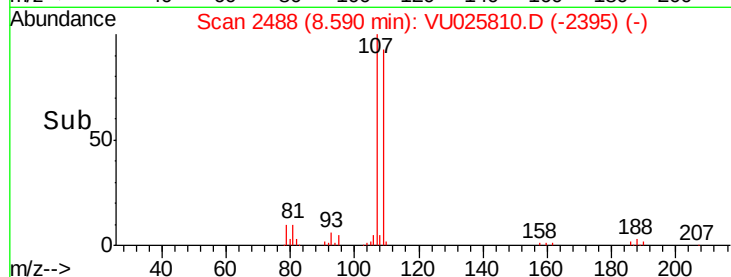
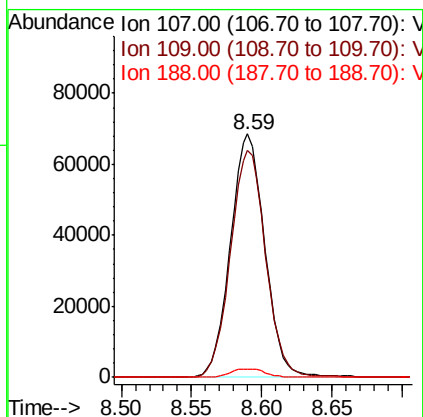
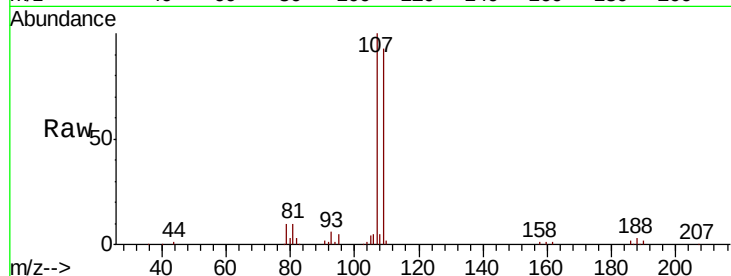




#50
 1,2-Dibromoethane
 Concen: 47.77 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

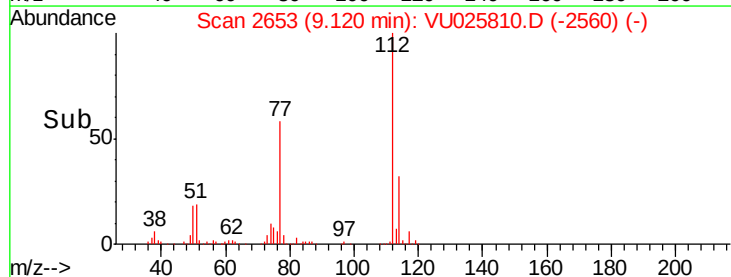
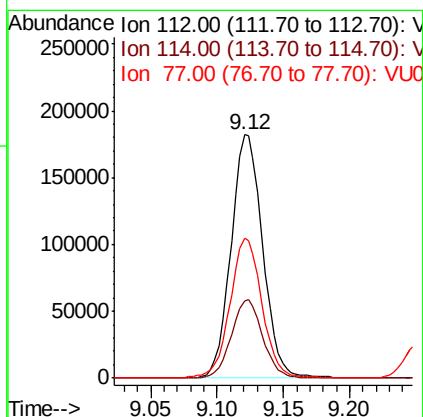
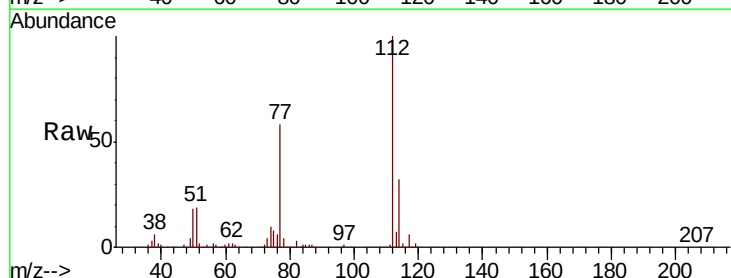
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

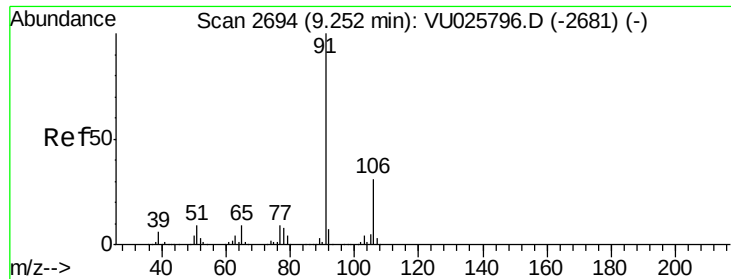
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	66.6	123.8
188	3.4	3.2	4.8



#51
 Chlorobenzene
 Concen: 48.06 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.9
77	57.5	45.8	68.8





#52

Ethylbenzene

Concen: 48.16 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

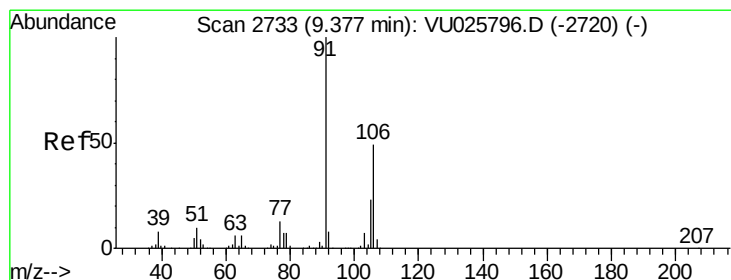
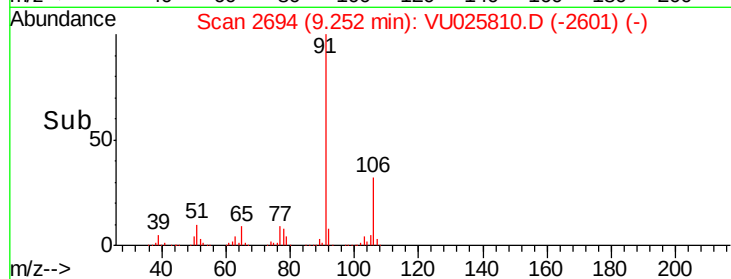
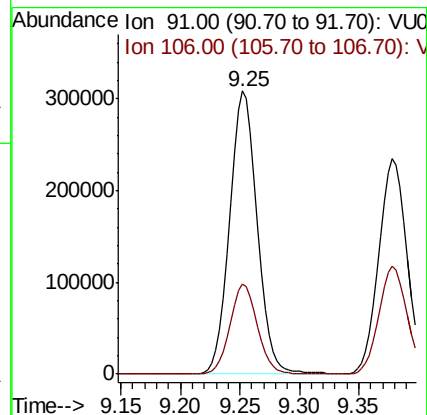
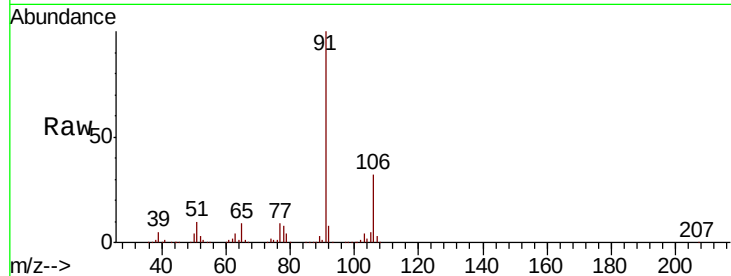
VSTD05049

Tot Ion: 91 Resp: 496363

Ion Ratio Lower Upper

91 100

106 31.6 22.3 41.5



#53

m,p-Xylene

Concen: 49.05 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025810.D

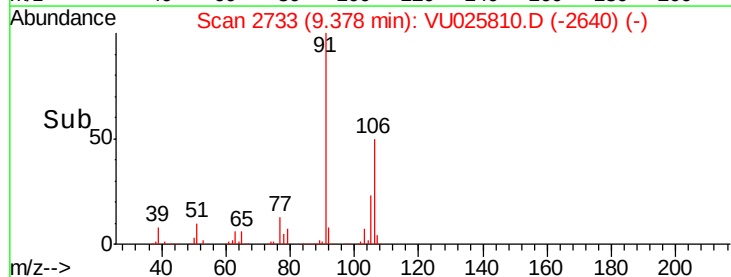
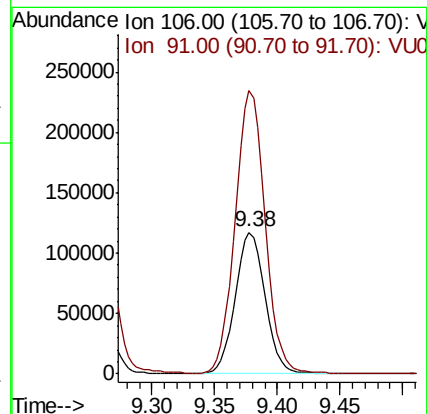
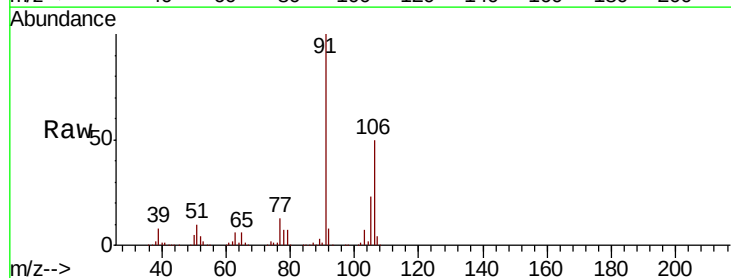
Acq: 02 Aug 2018 23:09

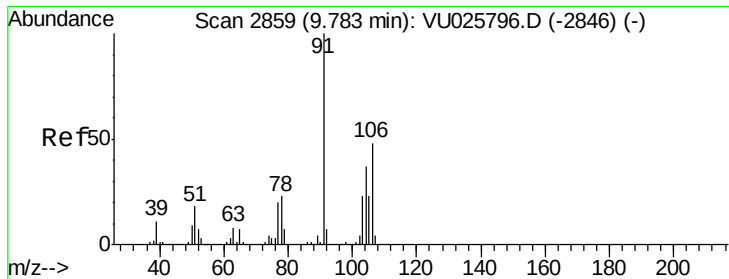
Tgt Ion: 106 Resp: 193637

Ion Ratio Lower Upper

106 100

91 199.5 141.7 263.3





#54

o-xylene

Concen: 47.41 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

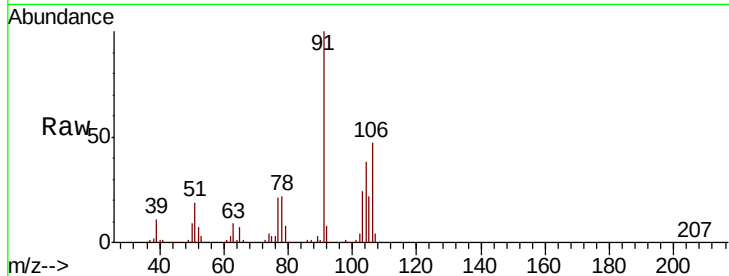
VSTD05049

Tot Ion:106 Resp: 189948

Ion Ratio Lower Upper

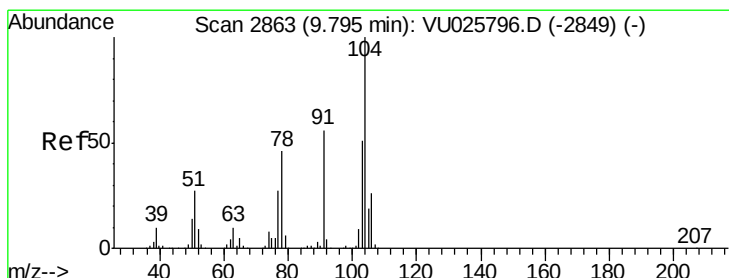
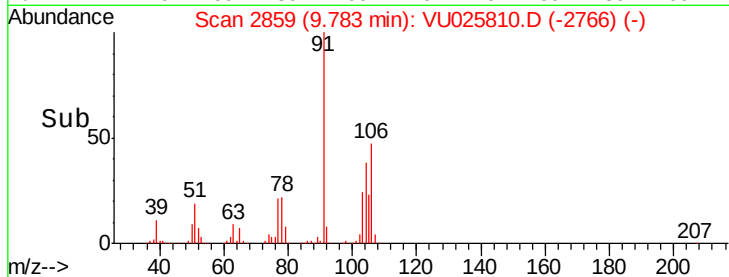
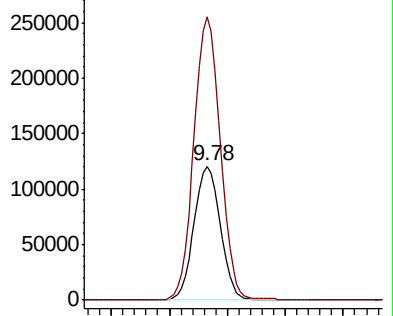
106 100

91 211.6 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 49.94 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU025810.D

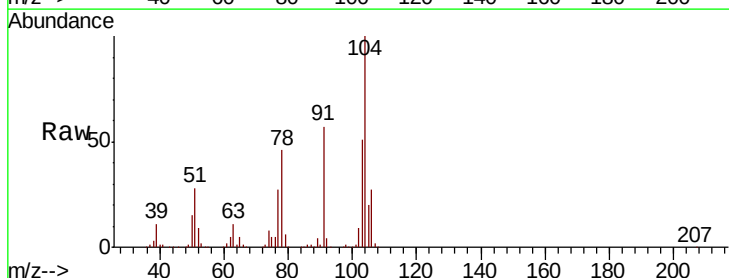
Acq: 02 Aug 2018 23:09

Tgt Ion:104 Resp: 325866

Ion Ratio Lower Upper

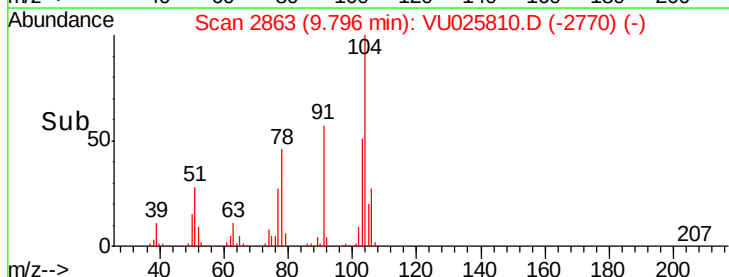
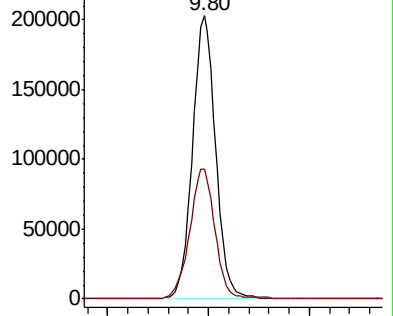
104 100

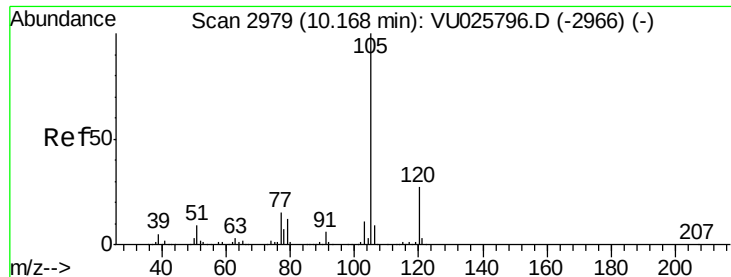
78 45.7 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.45 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

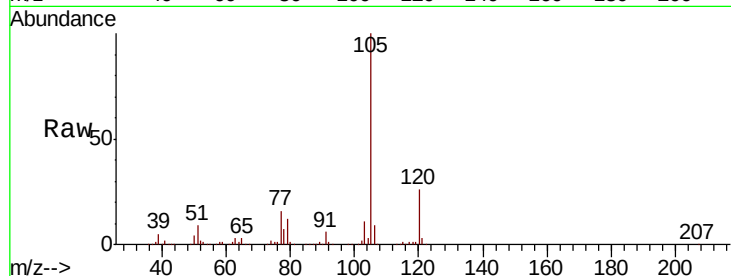
Tot Ion:105 Resp: 500909

Ion Ratio Lower Upper

105 100

120 26.5 21.7 32.5

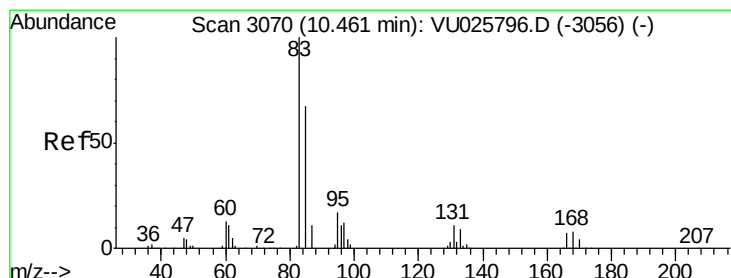
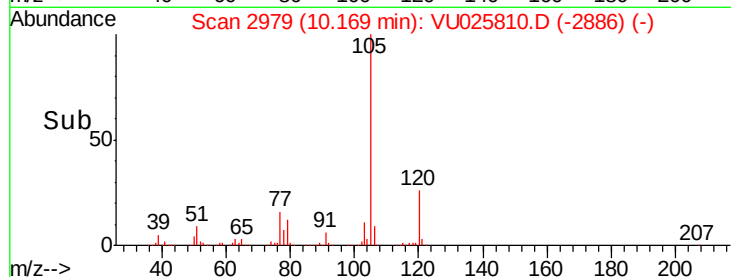
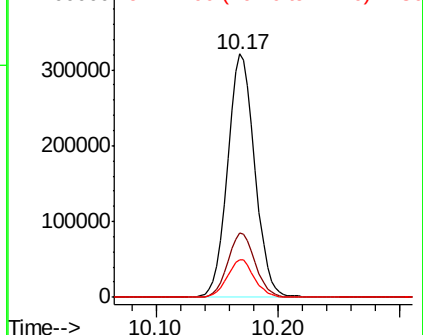
77 15.4 12.4 18.6



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: 49.72 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

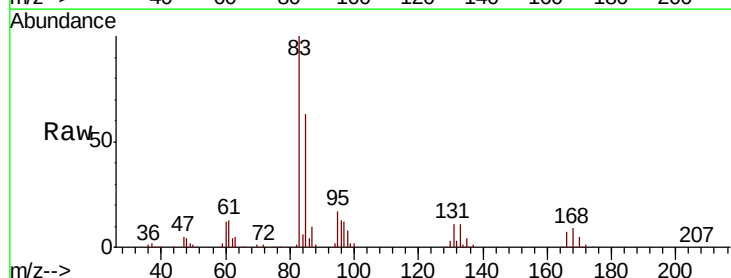
Tgt Ion: 83 Resp: 182052

Ion Ratio Lower Upper

83 100

85 63.1 45.1 83.7

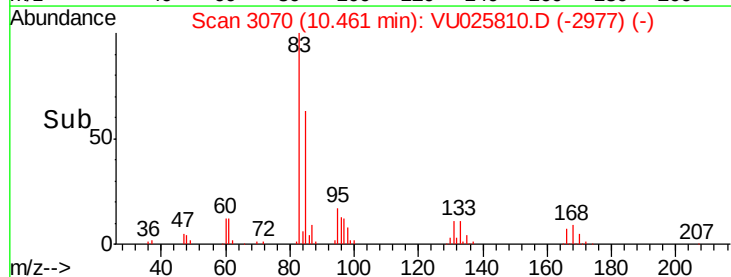
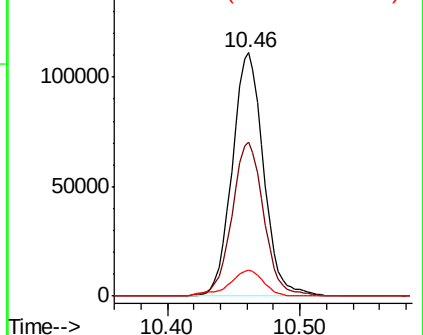
131 10.7 8.7 13.1

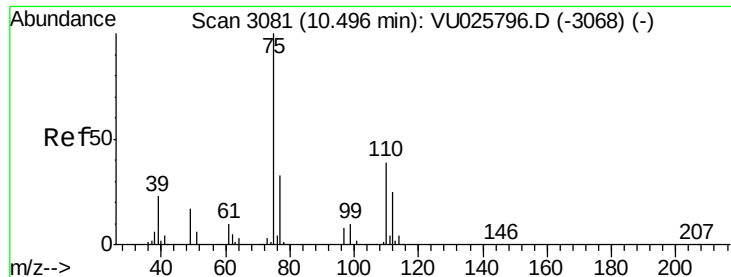


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

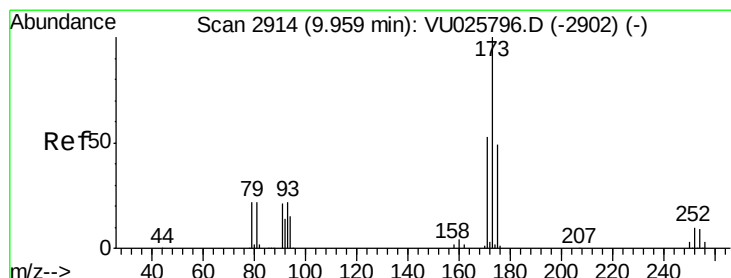
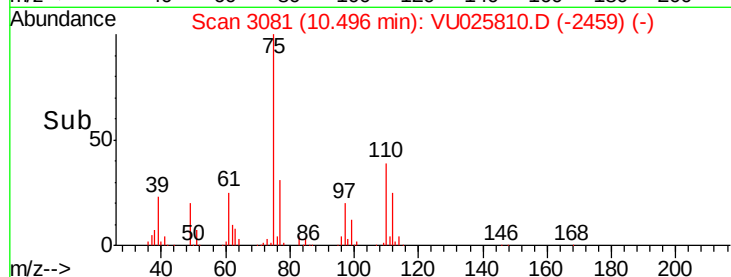
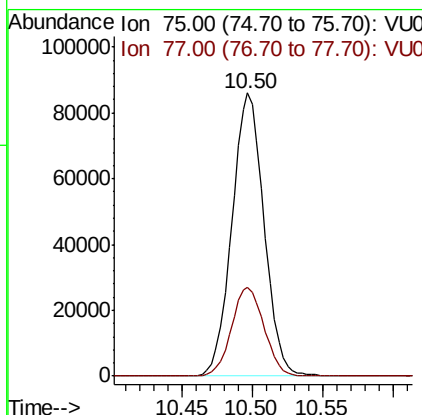
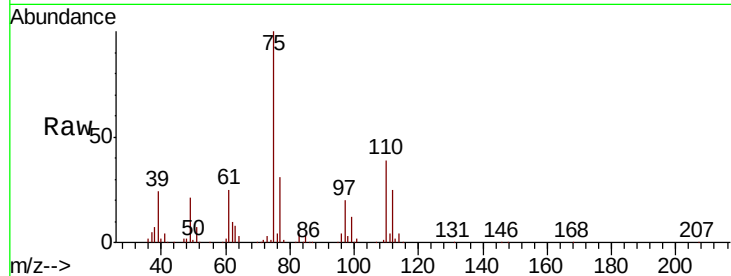




#59
 1,2,3-Trichloropropane
 Concen: 49.21 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

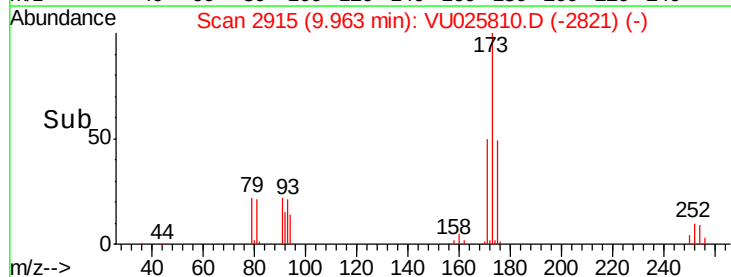
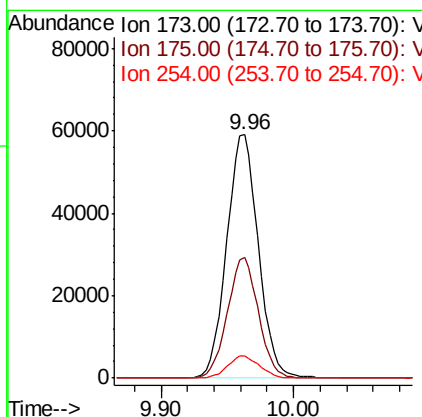
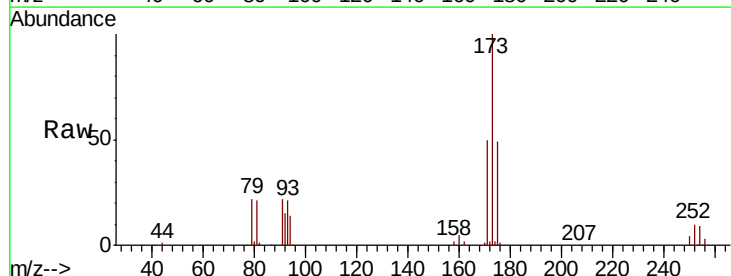
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

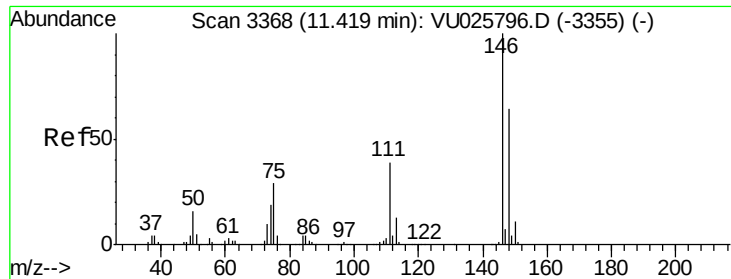
Tot Ion: 75 Resp: 136793
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.8 38.8



#61
 Bromoform
 Concen: 46.20 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Tgt Ion: 173 Resp: 97766
 Ion Ratio Lower Upper
 173 100
 175 48.5 39.8 59.8
 254 9.2 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 47.64 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

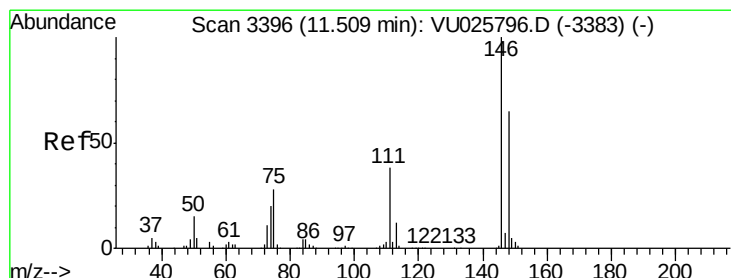
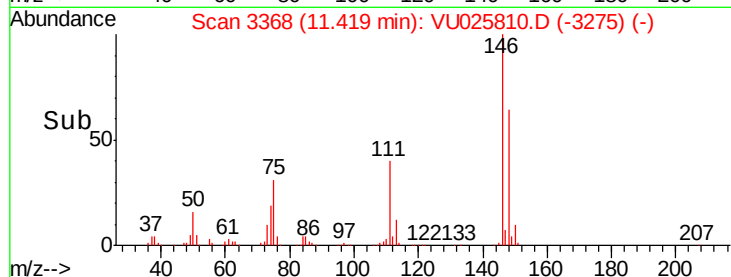
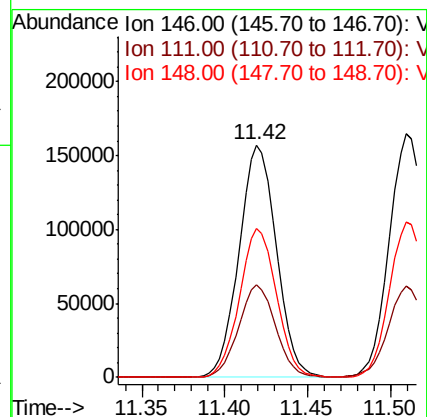
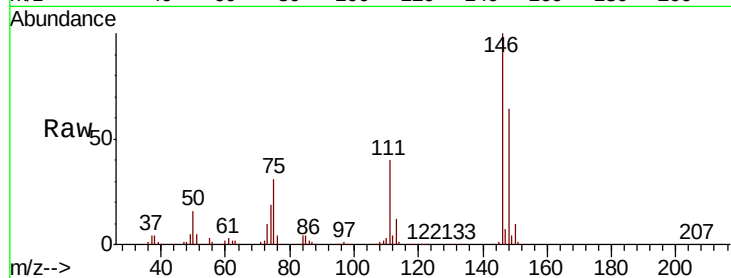
Tot Ion:146 Resp: 246494

Ion Ratio Lower Upper

146 100

111 39.7 27.7 51.5

148 64.0 45.5 84.5



#63

1,4-Dichlorobenzene

Concen: 48.18 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

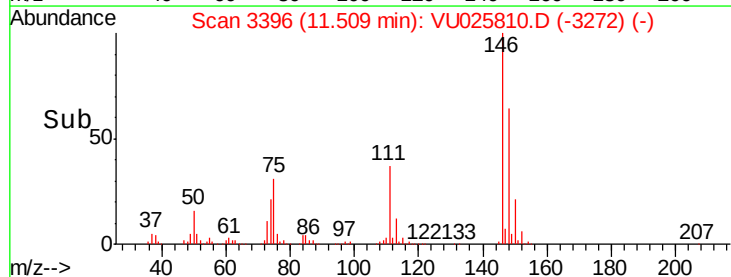
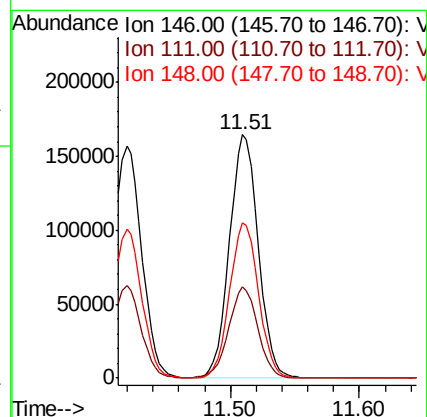
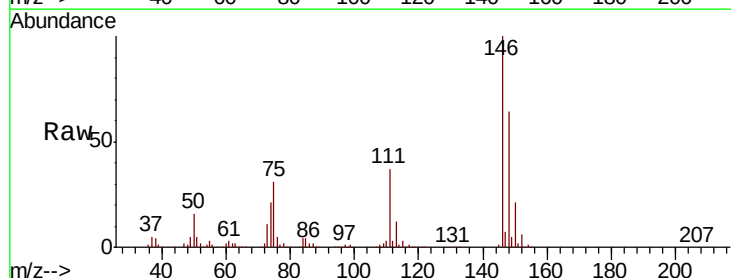
Tgt Ion:146 Resp: 254466

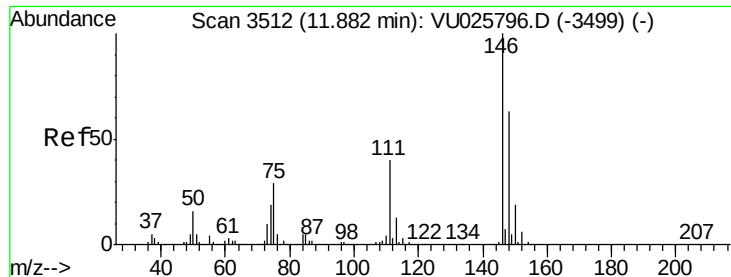
Ion Ratio Lower Upper

146 100

111 37.3 26.9 49.9

148 63.8 44.6 82.8

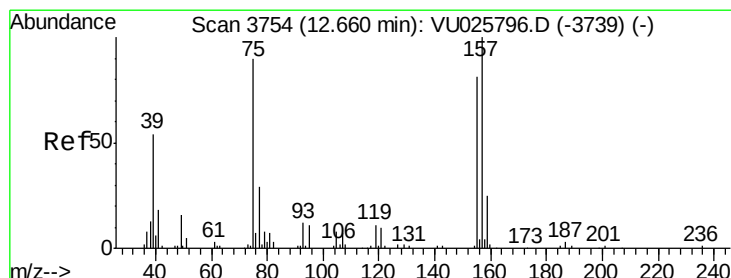
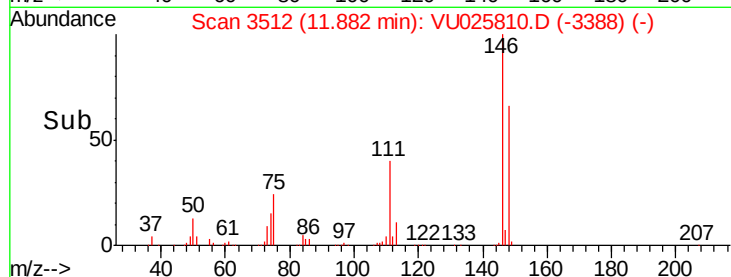
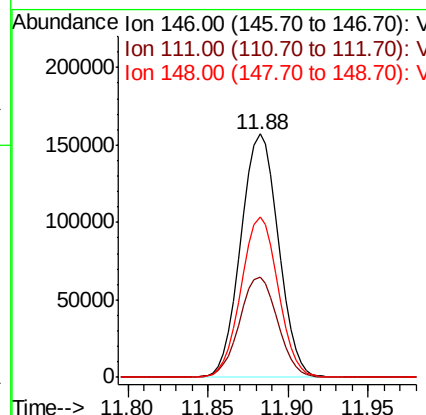
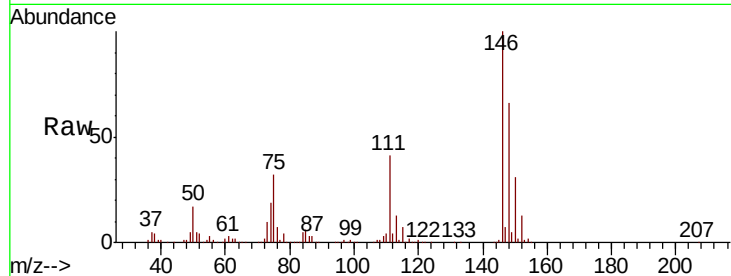




#65
 1,2-Dichlorobenzene
 Concen: 46.46 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

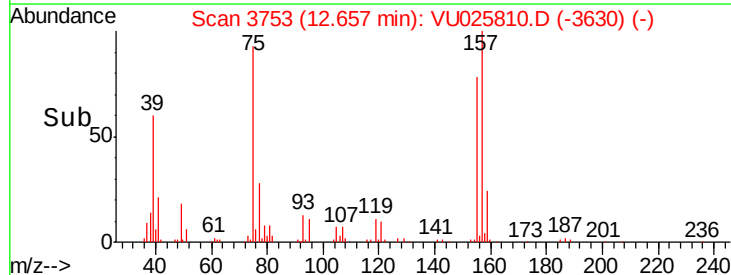
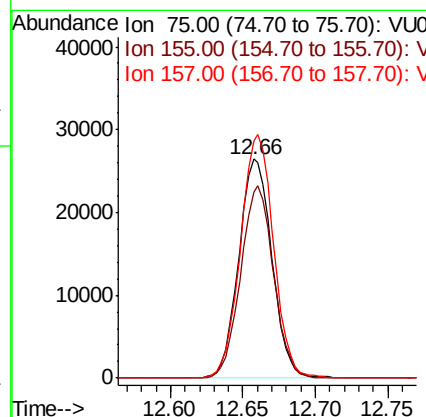
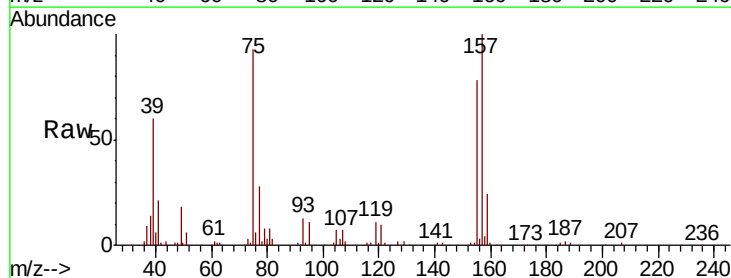
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

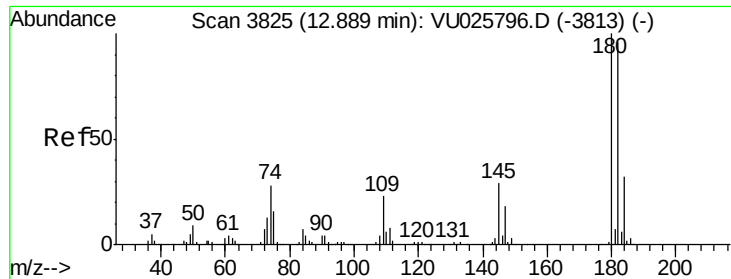
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	32.4	48.6
148	65.8	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.26 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.8	66.3	99.5
157	108.1	91.5	137.3

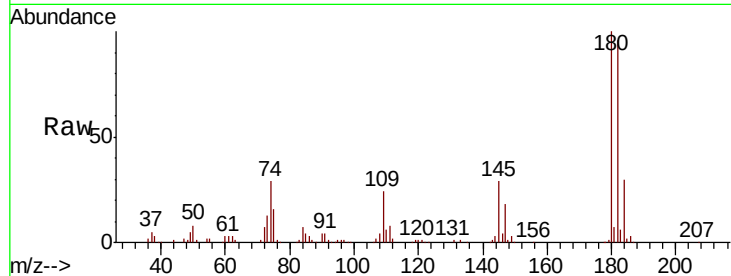




#67
 1,3,5-Trichlorobenzene
 Concen: 46.29 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.3	115.9
184	30.0	24.6	36.8
145	29.1	23.0	34.6



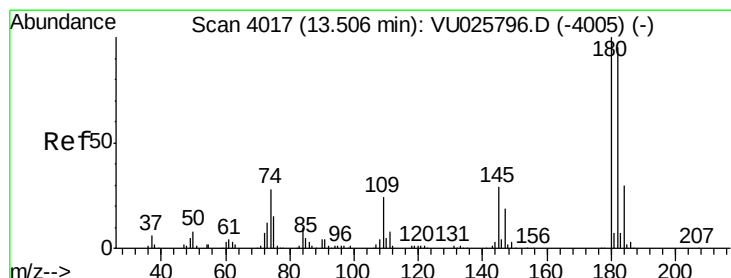
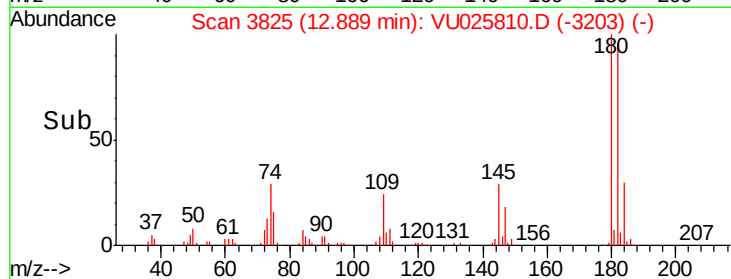
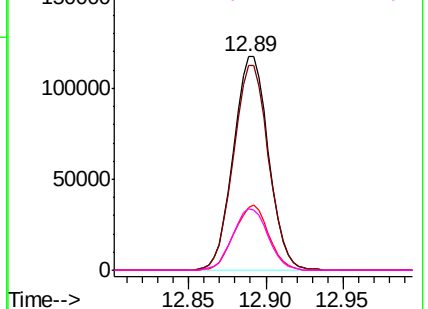
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

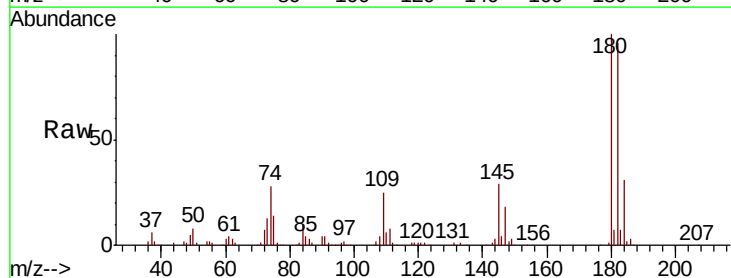
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.14 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025810.D
 Acq: 02 Aug 2018 23:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	78.1	117.1
145	29.6	23.4	35.2

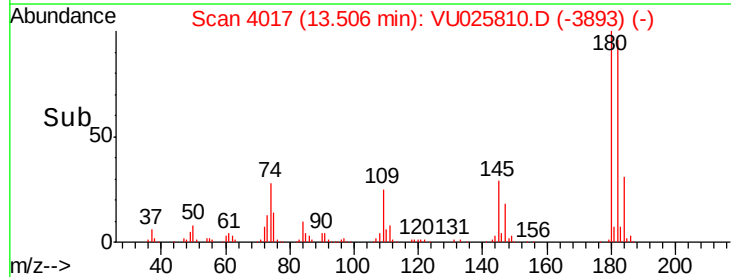
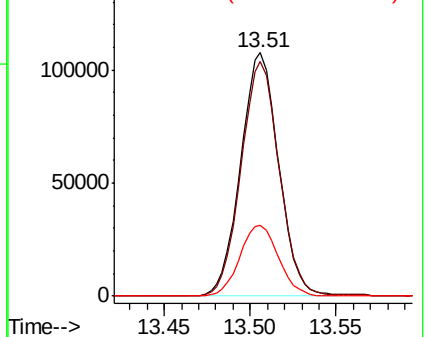


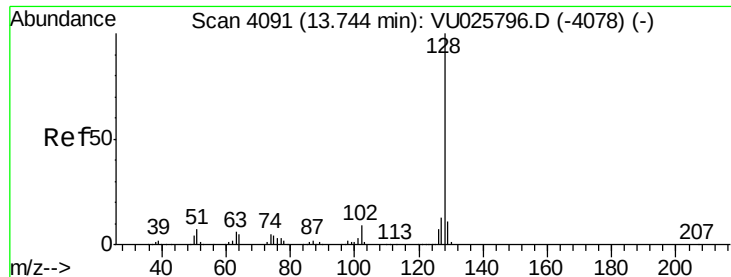
Abundance

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: 52.10 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

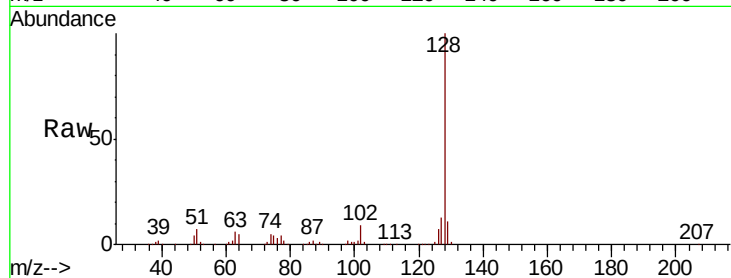
Tot Ion:128 Resp: 525907

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

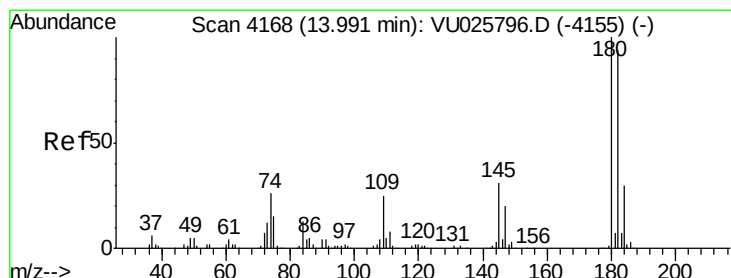
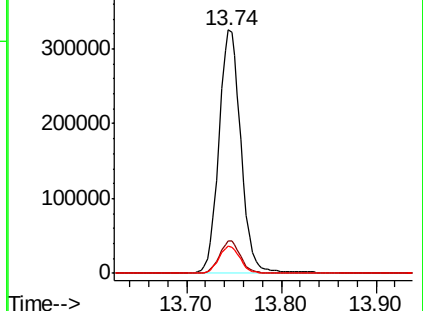
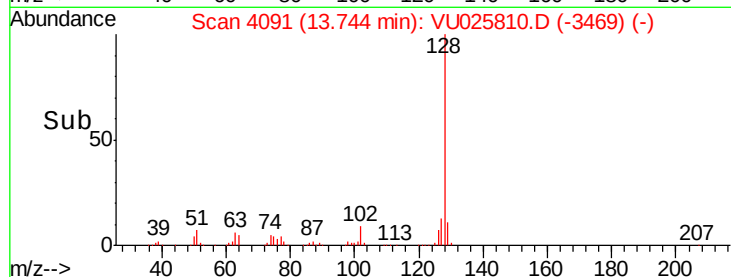
129 10.8 8.4 12.6



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: 48.69 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU025810.D

Acq: 02 Aug 2018 23:09

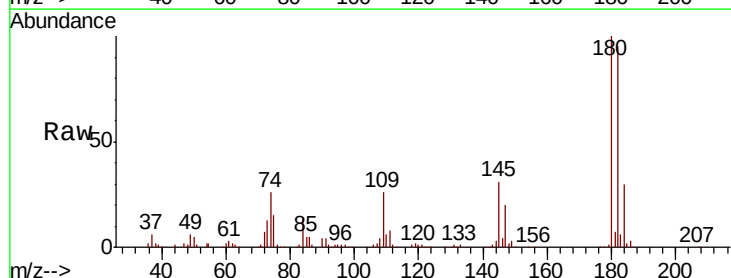
Tgt Ion:180 Resp: 172770

Ion Ratio Lower Upper

180 100

182 95.0 76.6 114.8

145 31.3 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

