

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072618\
 Data File : VU025656.D
 Acq On : 26 Jul 2018 18:55
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Quant Time: Jul 27 02:05:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 27 02:03:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	300498	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	286046	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	157658	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	69794	40.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.36%
7) Chloroethane-d5	1.68	69	59944	42.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.72%
11) 1,1-Dichloroethene-d2	2.27	63	155579	43.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.12%
21) 2-Butanone-d5	4.18	46	149056	112.54	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.54%
24) Chloroform-d	4.65	84	171814	44.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.92%
26) 1,2-Dichloroethane-d4	5.31	65	116719	46.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.38%
32) Benzene-d6	5.35	84	315160	42.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.92%
36) 1,2-Dichloropropane-d6	6.34	67	104393	44.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.32%
41) Toluene-d8	7.57	98	298629	42.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.90%
43) trans-1,3-Dichloropropene-	7.85	79	51912	42.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.98%
47) 2-Hexanone-d5	8.31	63	108349	109.47	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.47%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	161271	48.78	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.56%
64) 1,2-Dichlorobenzene-d4	11.86	152	136123	42.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	129713	43.810	ug/L 99
3) Chloromethane	1.33	50	110253	51.563	ug/L 100
5) Vinyl chloride	1.40	62	108378	46.213	ug/L 99
6) Bromomethane	1.63	94	48738	59.760	ug/L 94
8) Chloroethane	1.70	64	64886	46.987	ug/L 98
9) Trichlorofluoromethane	1.89	101	156162	46.760	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	92130	49.263	ug/L 99
12) 1,1-Dichloroethene	2.28	96	82241	48.495	ug/L 91
13) Acetone	2.32	43	123062	79.164	ug/L 99
14) Carbon disulfide	2.48	76	249652	45.210	ug/L 99
15) Methyl Acetate	2.62	43	119379	55.553	ug/L 100
16) Methylene chloride	2.70	84	103243	48.872	ug/L 99
17) trans-1,2-Dichloroethene	2.99	96	92102	47.170	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	312962	49.215	ug/L 99
19) 1,1-Dichloroethane	3.45	63	179635	48.364	ug/L 98
20) cis-1,2-Dichloroethene	4.23	96	106983	48.541	ug/L 94
22) 2-Butanone	4.27	43	175511	101.418	ug/L 99

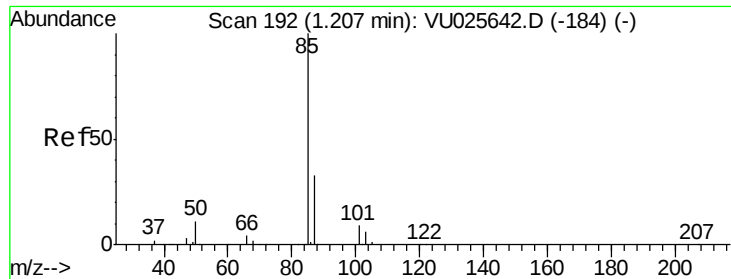
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072618\
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 Quant Title : VOC Analysis
 QLast Update : Fri Jul 27 02:03:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	57369	49.316	ug/L	97
25) Chloroform	4.68	83	193416	49.488	ug/L	100
27) 1,2-Dichloroethane	5.41	62	158618	49.757	ug/L	98
29) Cyclohexane	5.00	56	151275	45.648	ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	171719	47.974	ug/L	99
31) Carbon tetrachloride	5.14	117	155550	46.997	ug/L	99
33) Benzene	5.39	78	391628	47.649	ug/L	100
34) Trichloroethene	6.19	95	106887	49.014	ug/L	99
35) Methylcyclohexane	6.42	83	163134	46.394	ug/L	98
37) 1,2-Dichloropropane	6.44	63	108988	48.526	ug/L	100
38) Bromodichloromethane	6.76	83	145393	49.099	ug/L	95
39) cis-1,3-Dichloropropene	7.27	75	170196	48.830	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	328719	111.451	ug/L	100
42) Toluene	7.64	91	429631	48.472	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	165271	50.290	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	103487	48.037	ug/L	97
46) Tetrachloroethene	8.23	164	89718	47.456	ug/L	98
48) 2-Hexanone	8.36	43	266159	106.795	ug/L	99
49) Dibromochloromethane	8.48	129	125341	49.598	ug/L	99
50) 1,2-Dibromoethane	8.59	107	115377	49.711	ug/L	100
51) Chlorobenzene	9.12	112	293635	49.209	ug/L	99
52) Ethylbenzene	9.25	91	480981	49.166	ug/L	100
53) m,p-Xylene	9.38	106	187531	50.046	ug/L	100
54) o-xylene	9.78	106	183023	48.135	ug/L	98
55) Styrene	9.80	104	316888	51.171	ug/L	99
56) Isopropylbenzene	10.17	105	489389	49.874	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	179034	51.521	ug/L	97
59) 1,2,3-Trichloropropane	10.50	75	134065	50.820	ug/L	98
61) Bromoform	9.96	173	94849	46.511	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	239021	47.929	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	246771	48.476	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	247885	47.446	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	43434	52.860	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	194065	50.414	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	169278	52.323	ug/L	97
69) Naphthalene	13.75	128	524738	53.934	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	175858	51.420	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 43.810 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

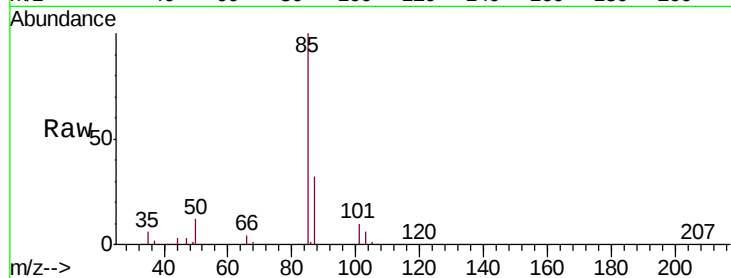
VSTD05042

Tot Ion: 85 Resp: 129713

Ion Ratio Lower Upper

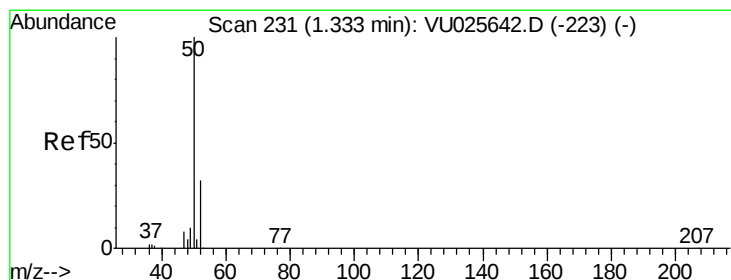
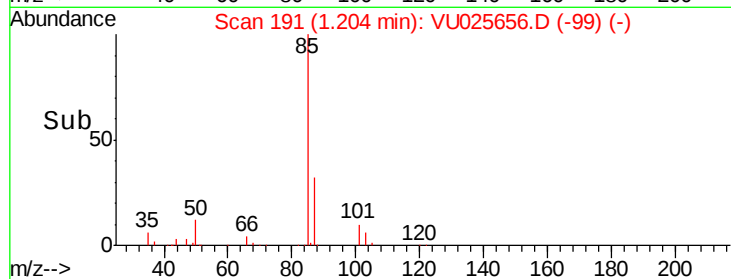
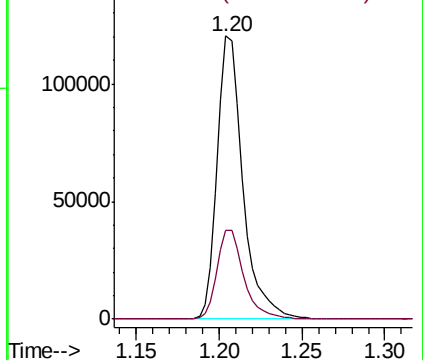
85 100

87 32.6 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 51.563 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025656.D

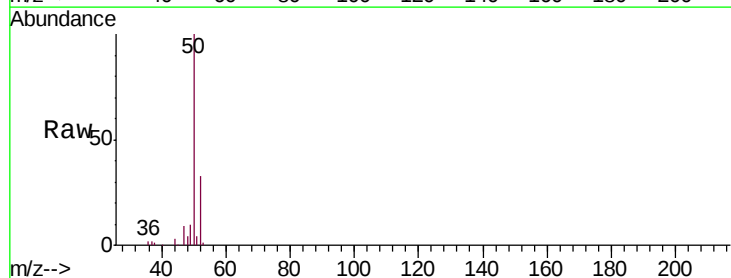
Acq: 26 Jul 2018 18:55

Tgt Ion: 50 Resp: 110253

Ion Ratio Lower Upper

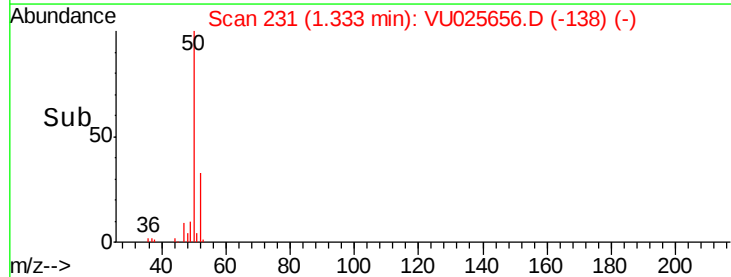
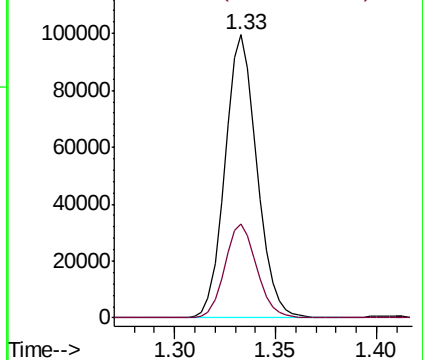
50 100

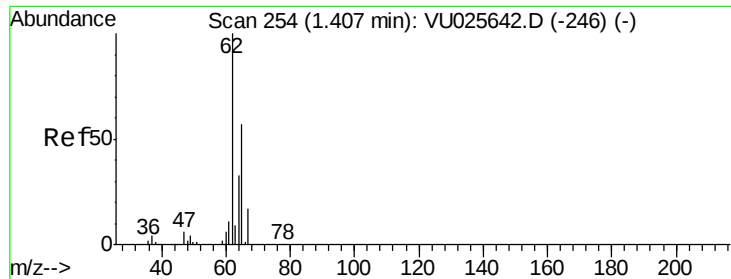
52 33.0 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 46.213 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

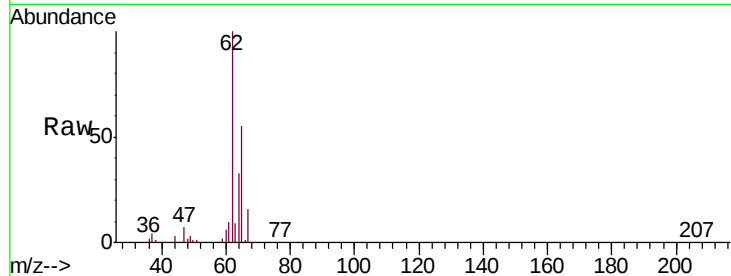
VSTD05042

Tot Ion: 62 Resp: 108378

Ion Ratio Lower Upper

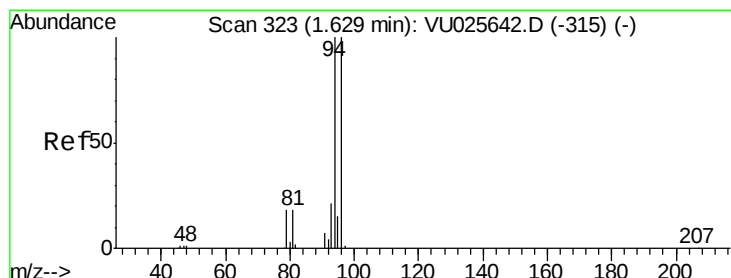
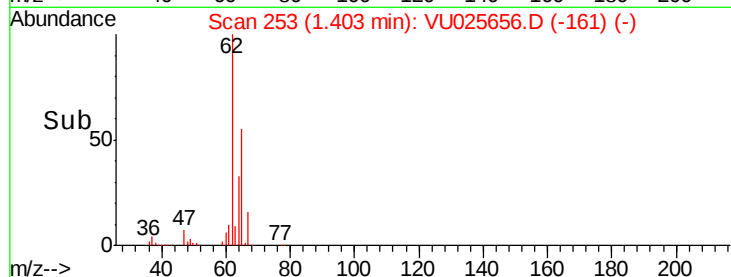
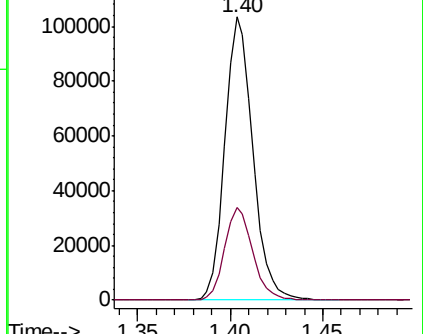
62 100

64 32.9 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU025642.D (-246) (-)

Ion 64.00 (63.70 to 64.70): VU025642.D (-246) (-)



#6

Bromomethane

Concen: 59.760 ug/L

RT: 1.63 min Scan# 322

Delta R.T. -0.00 min

Lab File: VU025656.D

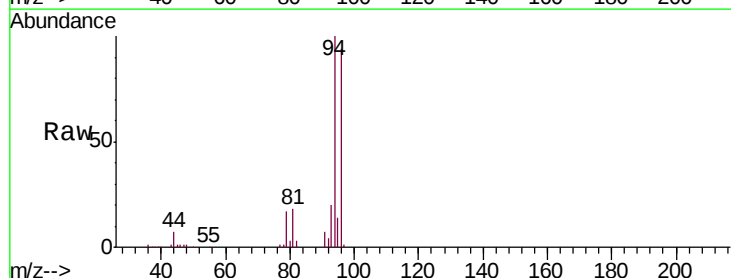
Acq: 26 Jul 2018 18:55

Tgt Ion: 94 Resp: 48738

Ion Ratio Lower Upper

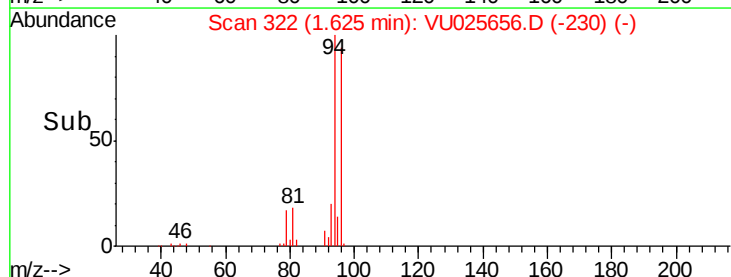
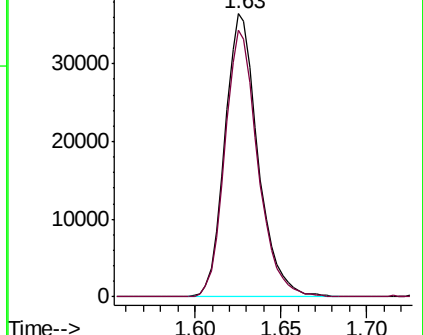
94 100

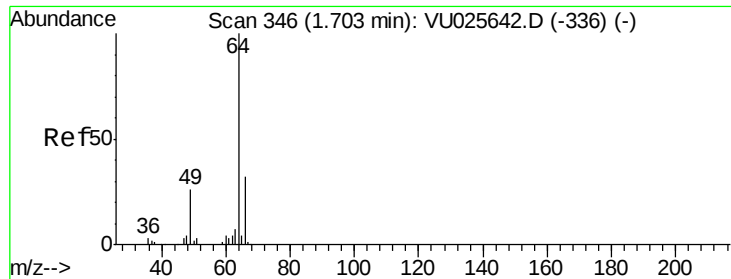
96 94.4 62.4 115.8



Abundance Ion 94.00 (93.70 to 94.70): VU025642.D (-315) (-)

Ion 96.00 (95.70 to 96.70): VU025642.D (-315) (-)





#8

Chloroethane

Concen: 46.987 ug/L

RT: 1.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

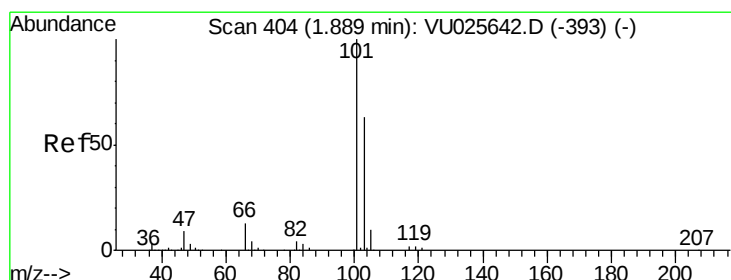
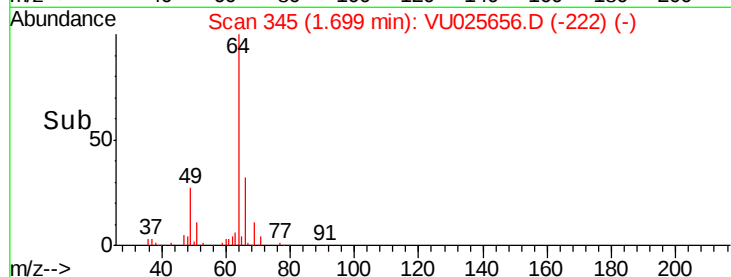
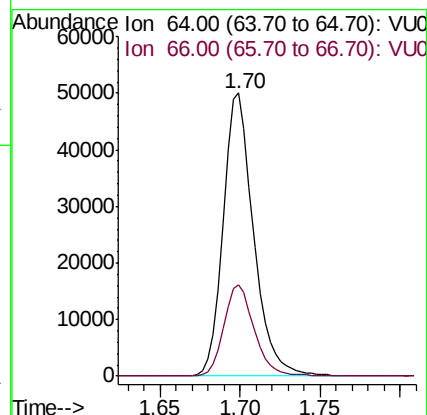
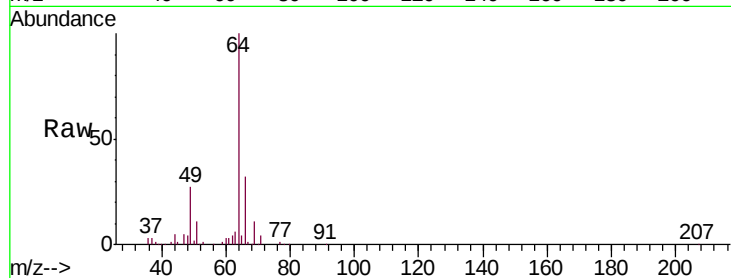
VSTD05042

Tot Ion: 64 Resp: 64886

Ion Ratio Lower Upper

64 100

66 32.5 23.5 43.7



#9

Trichlorofluoromethane

Concen: 46.760 ug/L

RT: 1.89 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU025656.D

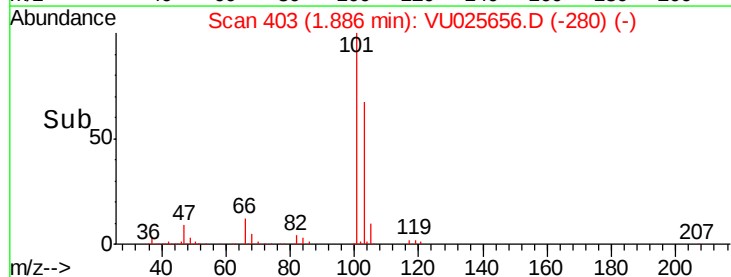
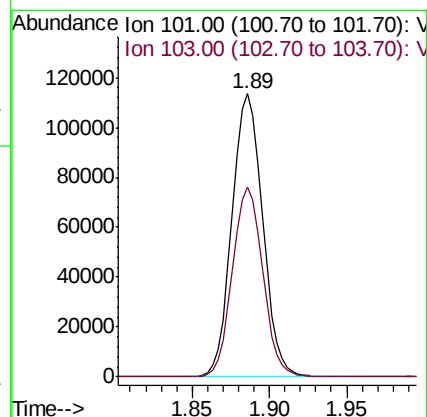
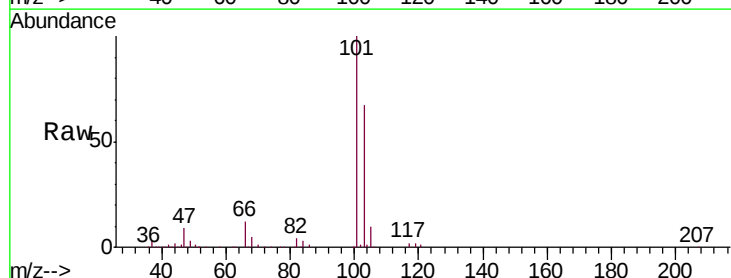
Acq: 26 Jul 2018 18:55

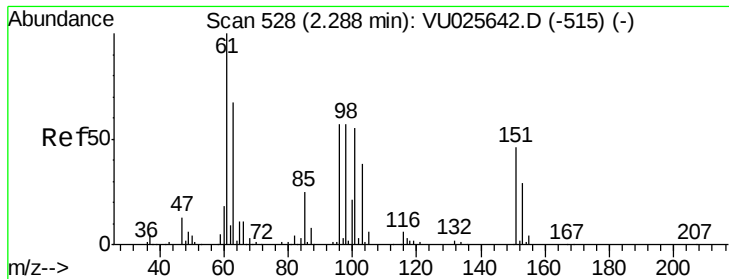
Tgt Ion: 101 Resp: 156162

Ion Ratio Lower Upper

101 100

103 66.3 52.0 78.0





#10

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

Concen: 49.263 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

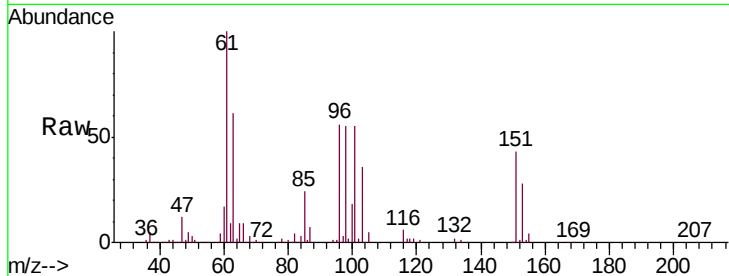
Tot Ion:101 Resp: 92130

Ion Ratio Lower Upper

101 100

85 43.4 35.5 53.3

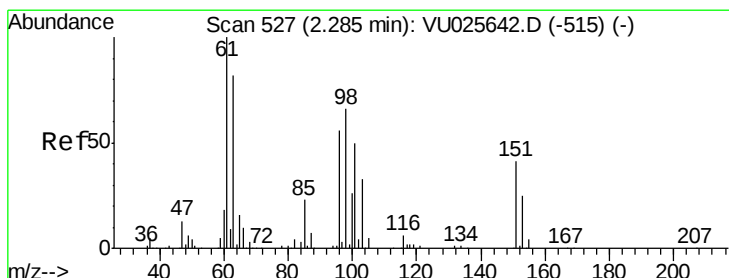
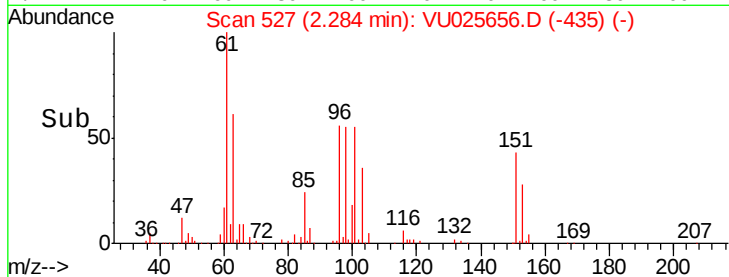
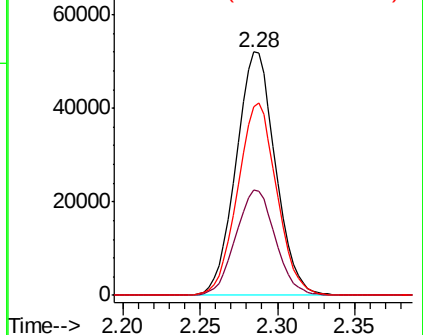
151 78.7 63.5 95.3



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: 48.495 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

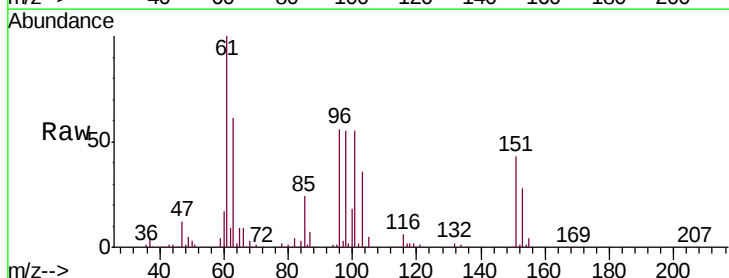
Tgt Ion: 96 Resp: 82241

Ion Ratio Lower Upper

96 100

61 177.9 122.5 227.5

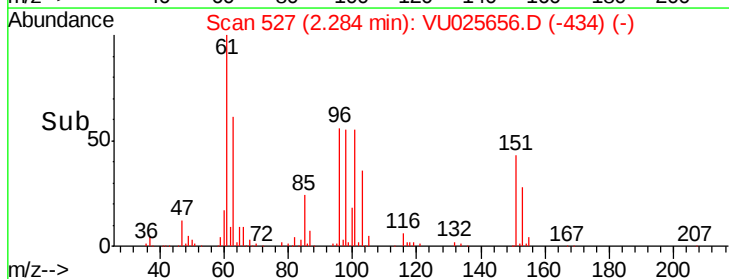
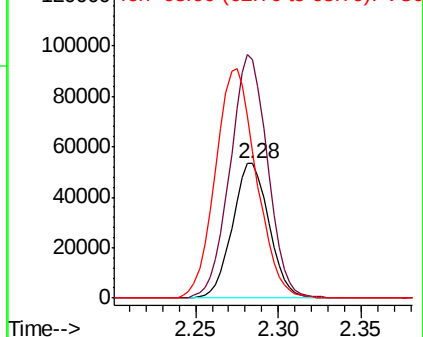
63 108.9 90.9 168.9

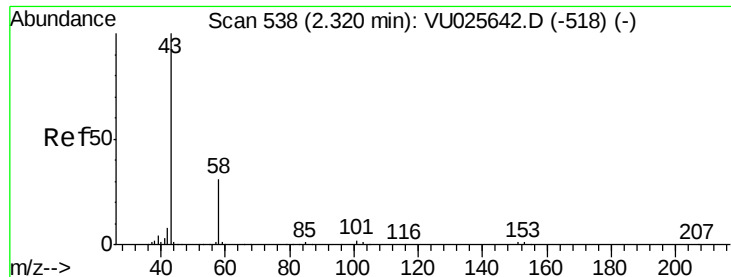


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 79.164 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

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ClientSampleId :

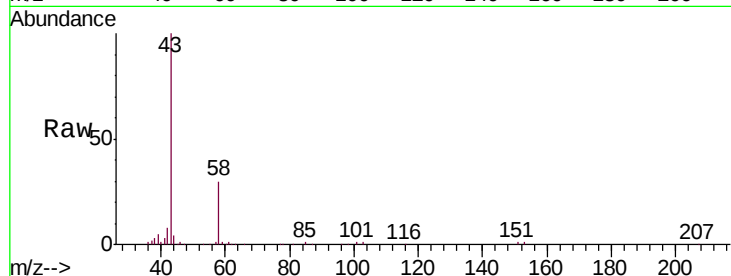
VSTD05042

Tot Ion: 43 Resp: 123062

Ion Ratio Lower Upper

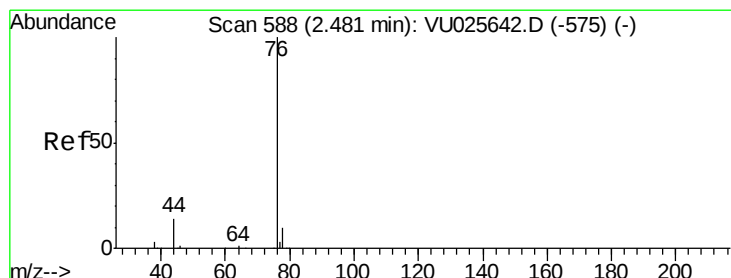
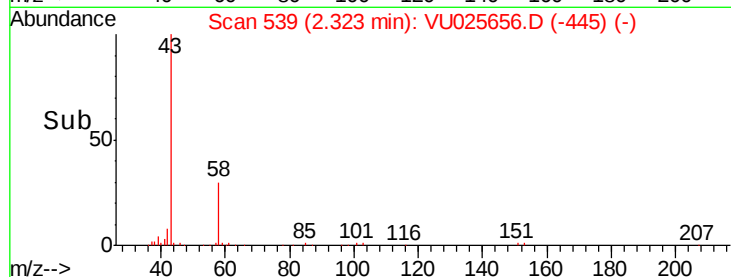
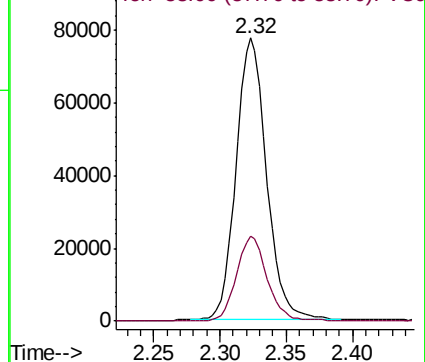
43 100

58 30.2 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 45.210 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU025656.D

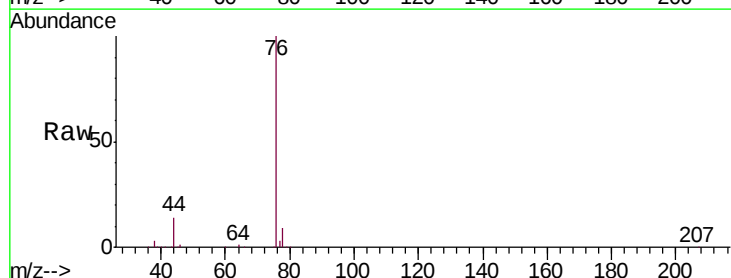
Acq: 26 Jul 2018 18:55

Tgt Ion: 76 Resp: 249652

Ion Ratio Lower Upper

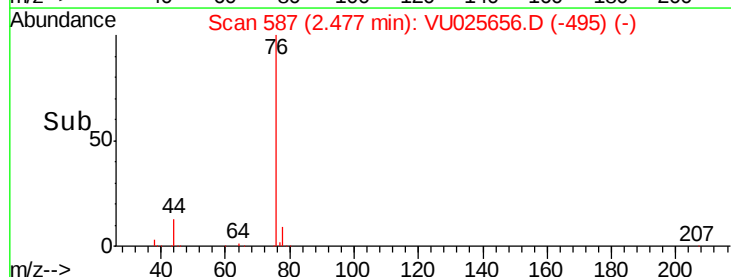
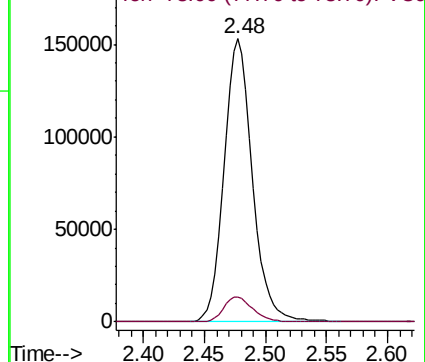
76 100

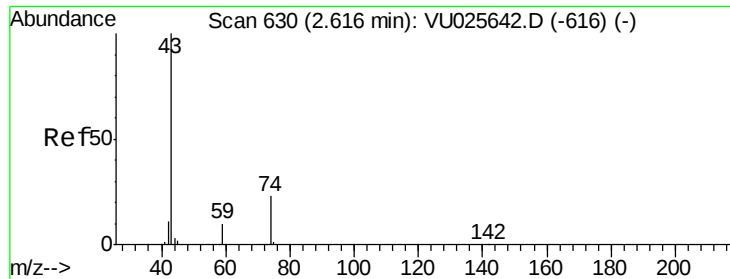
78 8.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

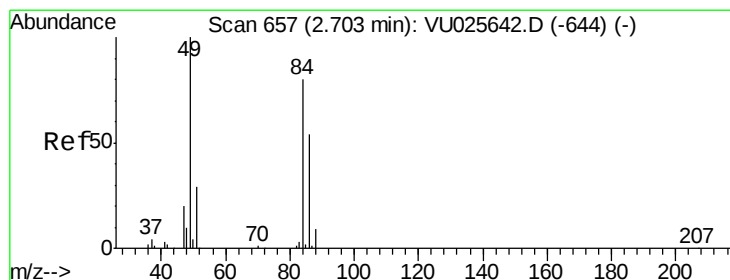
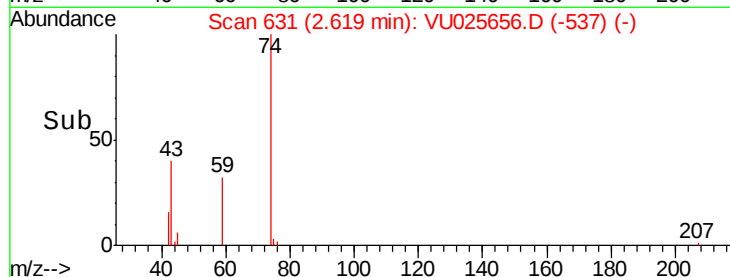
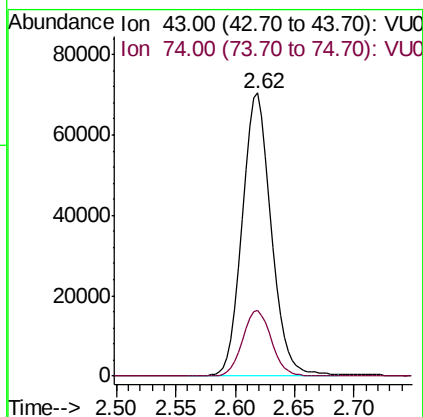
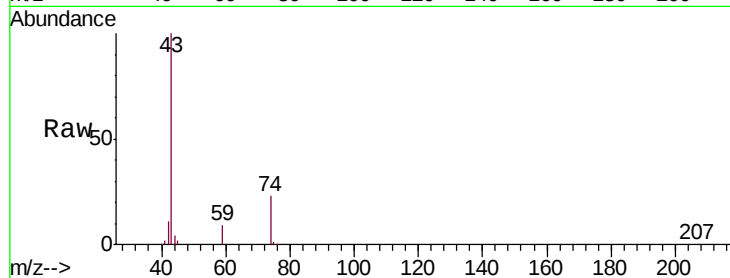




#15
Methvl Acetate
Concen: 55.553 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

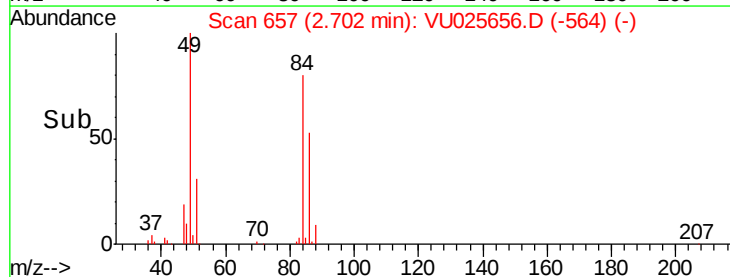
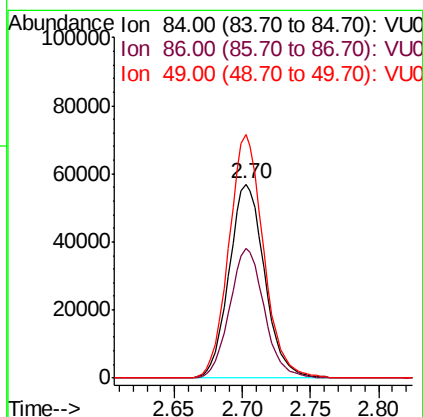
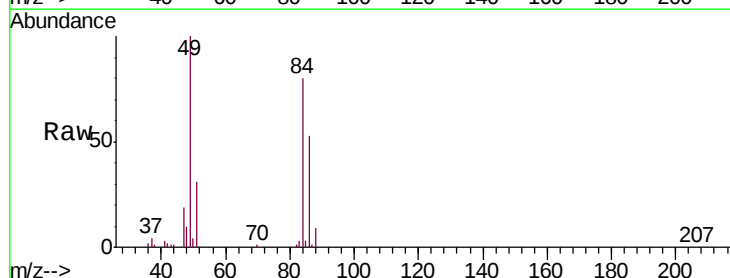
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

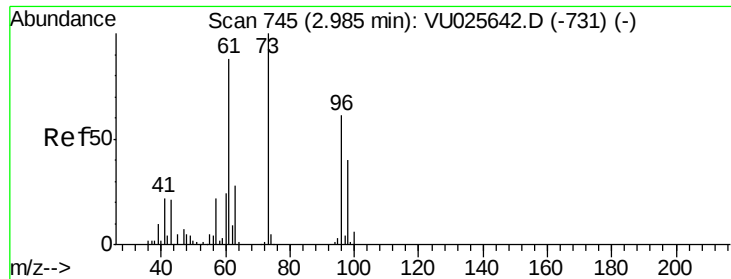
Tot Ion: 43 Resp: 119379
Ion Ratio Lower Upper
43 100
74 23.0 18.3 27.5



#16
Methylene chloride
Concen: 48.872 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

Tgt Ion: 84 Resp: 103243
Ion Ratio Lower Upper
84 100
86 66.6 45.6 84.6
49 125.5 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 47.170 ug/L

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

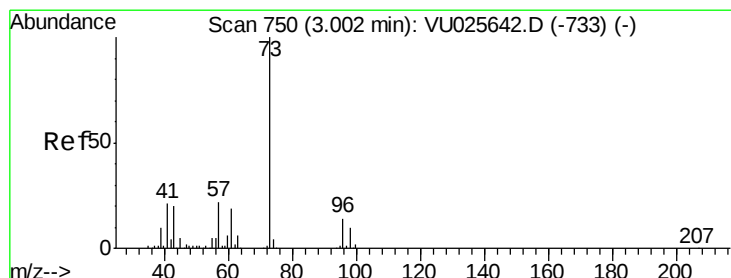
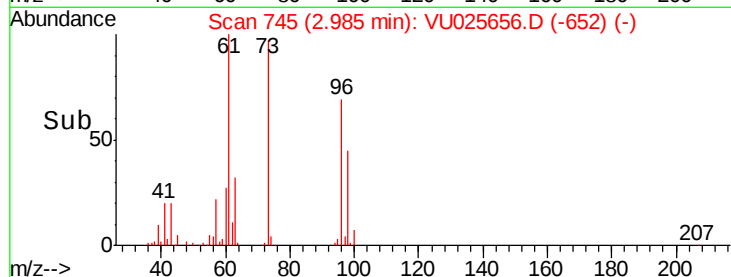
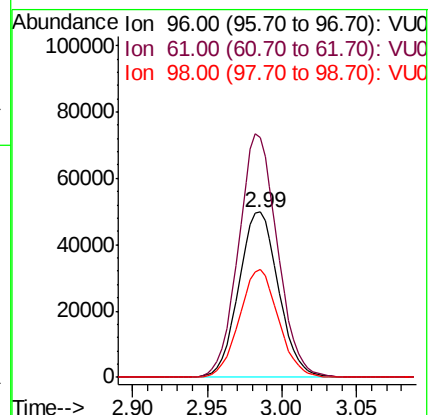
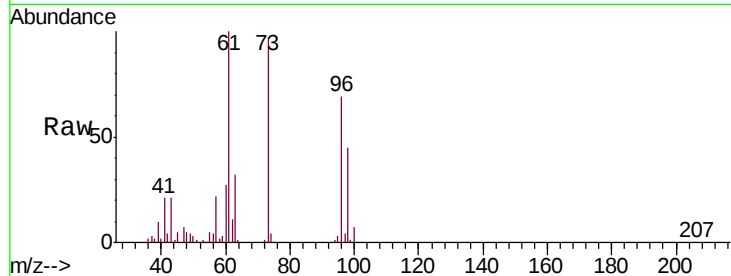
Tot Ion: 96 Resp: 92102

Ion Ratio Lower Upper

96 100

61 144.7 100.0 185.8

98 65.0 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 49.215 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

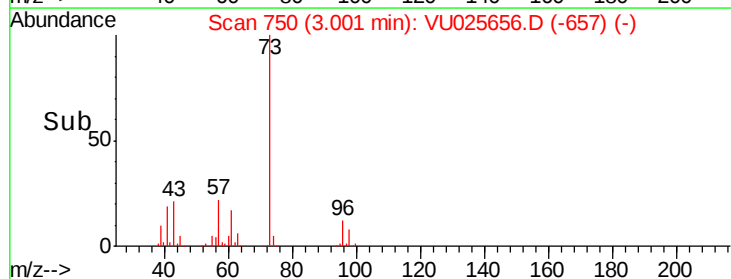
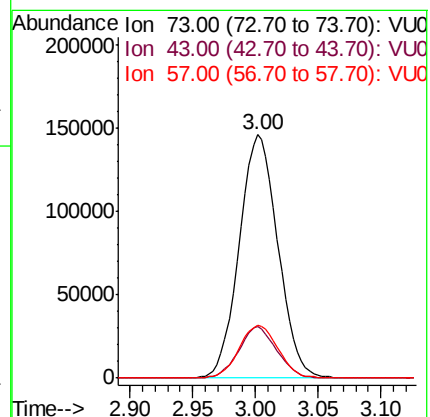
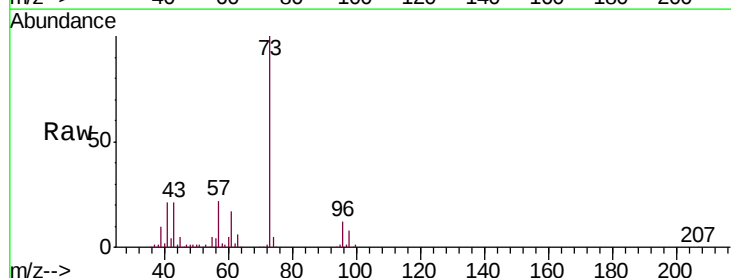
Tgt Ion: 73 Resp: 312962

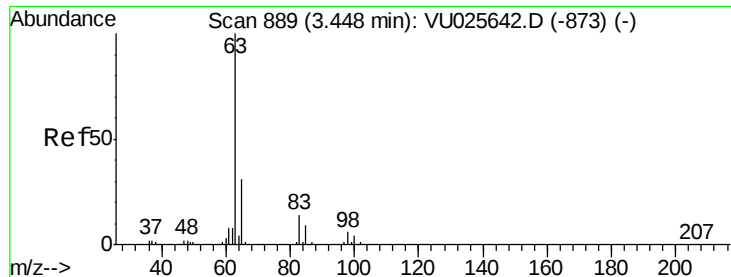
Ion Ratio Lower Upper

73 100

43 20.9 16.2 24.2

57 22.1 17.1 25.7

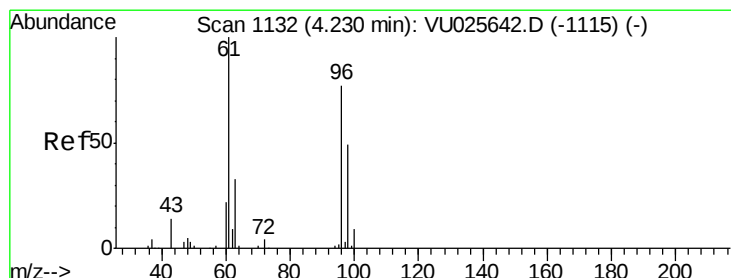
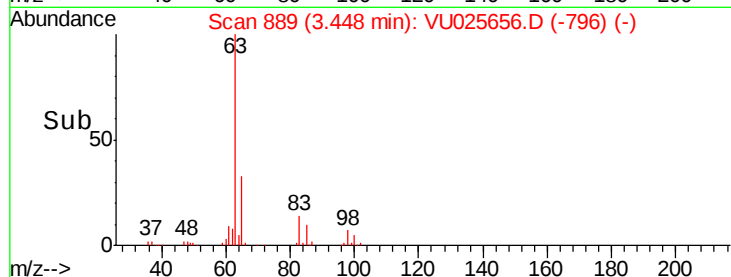
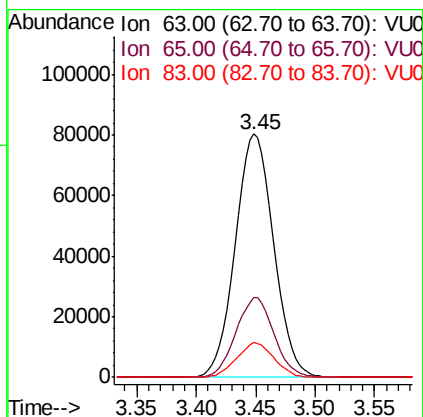
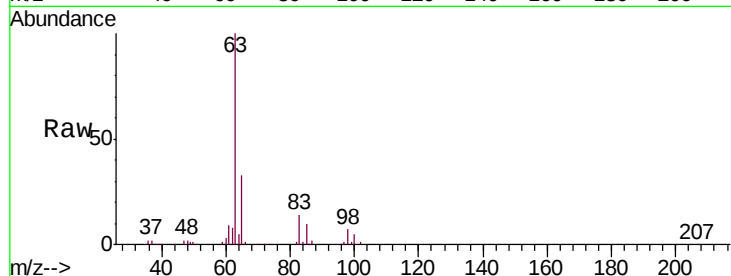




#19
 1,1-Dichloroethane
 Concen: 48.364 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

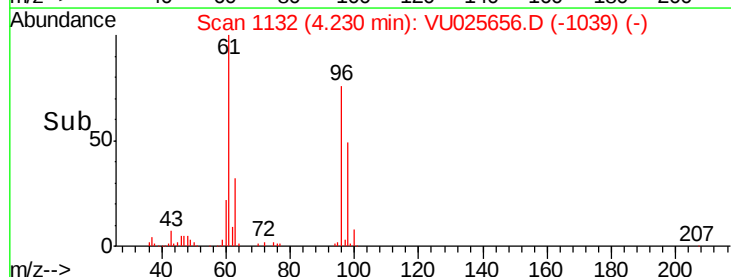
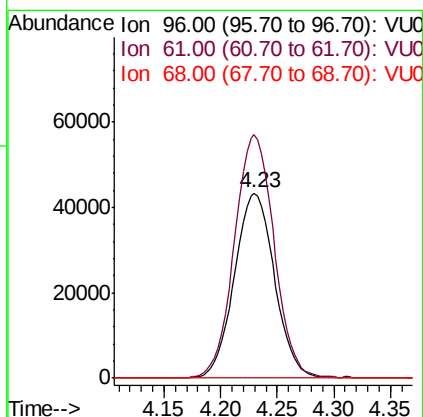
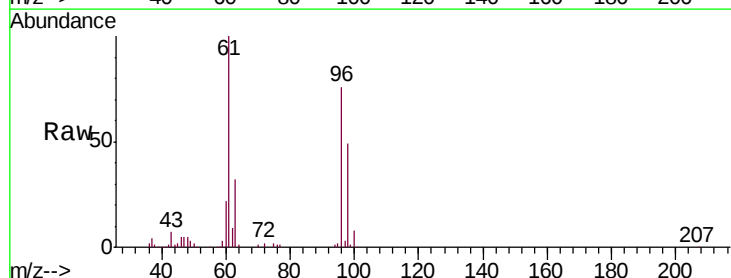
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

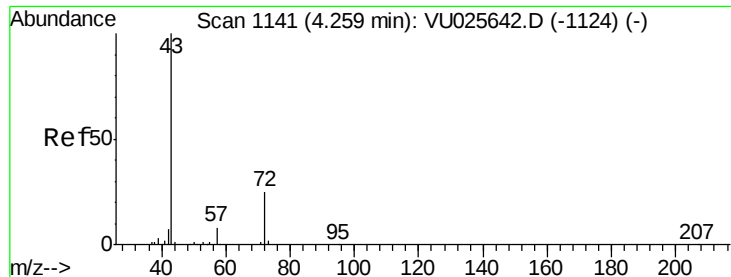
Tot Ion	Ratio	Lower	Upper
63	100		
65	32.6	22.0	41.0
83	14.2	9.6	17.8



#20
 cis-1,2-Dichloroethene
 Concen: 48.541 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	131.4	87.4	162.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 101.418 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

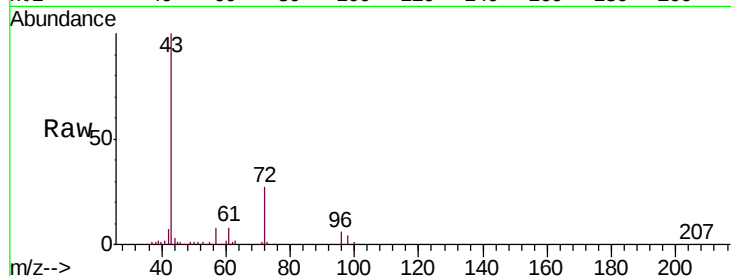
VSTD05042

Tot Ion: 43 Resp: 175511

Ion Ratio Lower Upper

43 100

72 26.8 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025642.D (-1124) (-)

Ion 72.00 (71.70 to 72.70): VU025642.D (-1124) (-)

4.27

80000

60000

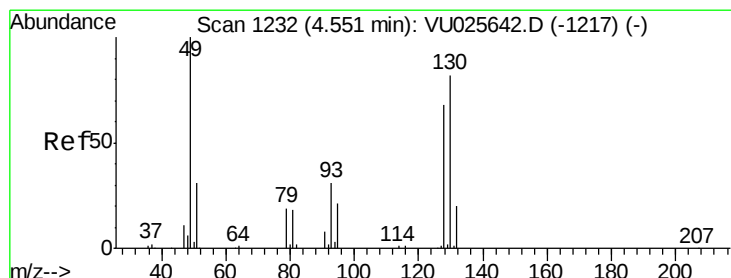
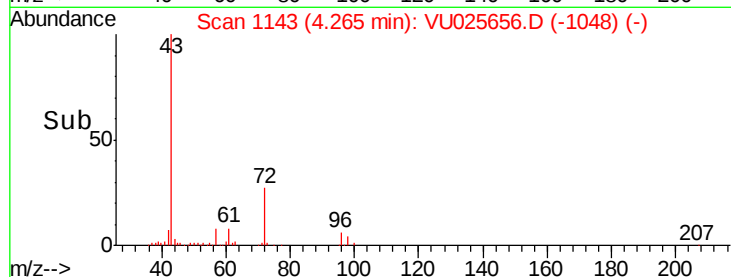
40000

20000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 49.316 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Tgt Ion:128 Resp: 57369

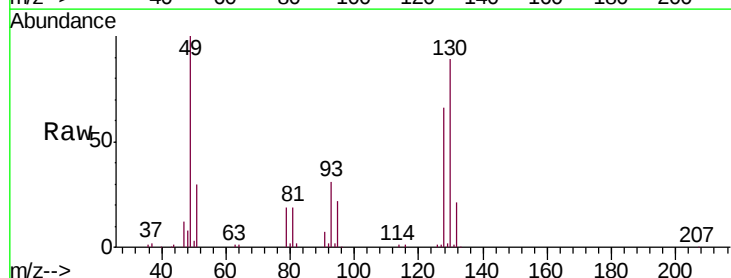
Ion Ratio Lower Upper

128 100

49 150.4 103.3 191.8

130 133.5 90.4 167.8

51 45.2 35.5 53.3



Abundance Ion 128.00 (127.70 to 128.70): VU025642.D (-1217) (-)

Ion 49.00 (48.70 to 49.70): VU025642.D (-1217) (-)

Ion 130.00 (129.70 to 130.70): VU025642.D (-1217) (-)

Ion 51.00 (50.70 to 51.70): VU025642.D (-1217) (-)

4.55

50000

40000

30000

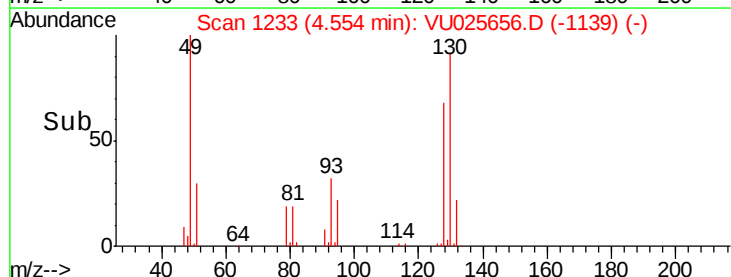
20000

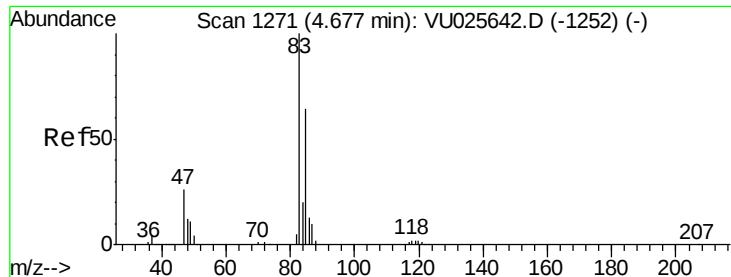
10000

0

4.45 4.50 4.55 4.60 4.65

Time-->

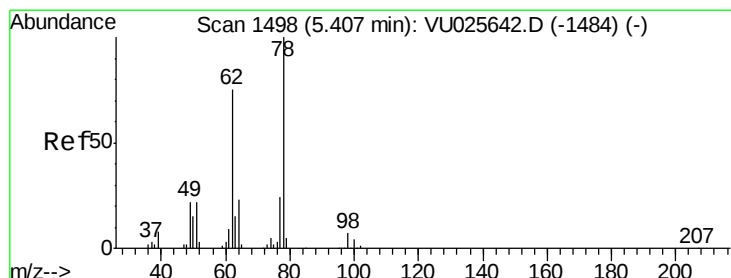
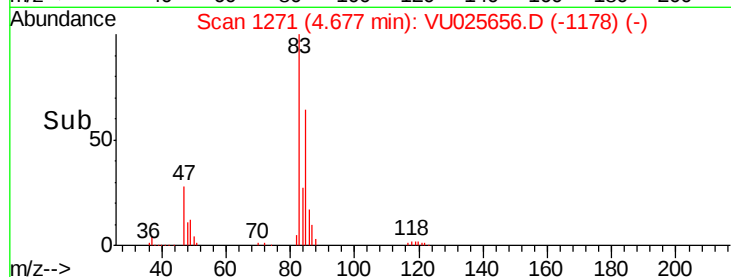
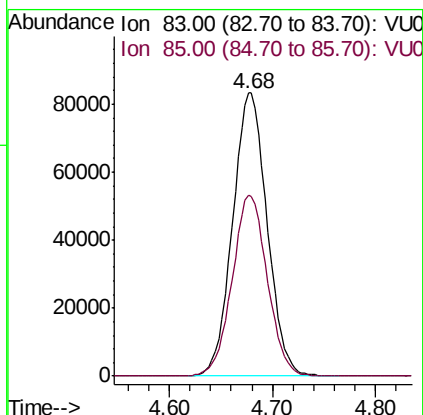
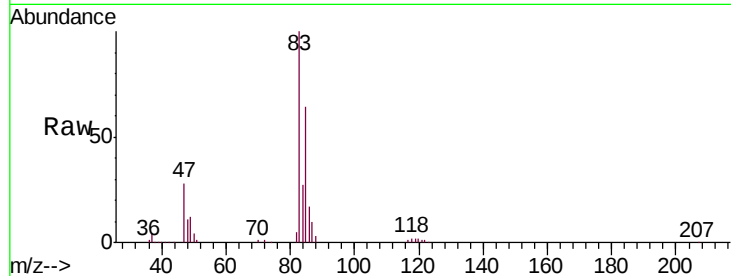




#25
Chloroform
Concen: 49.488 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

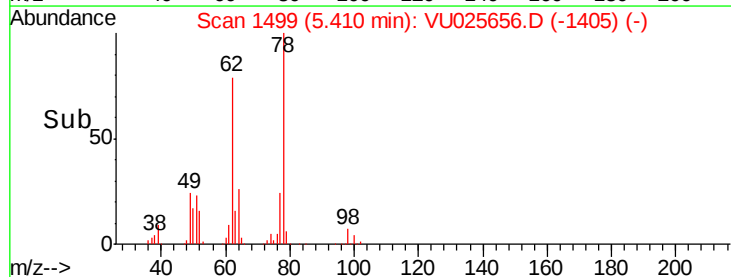
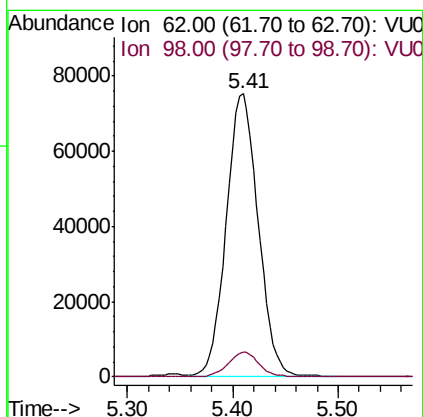
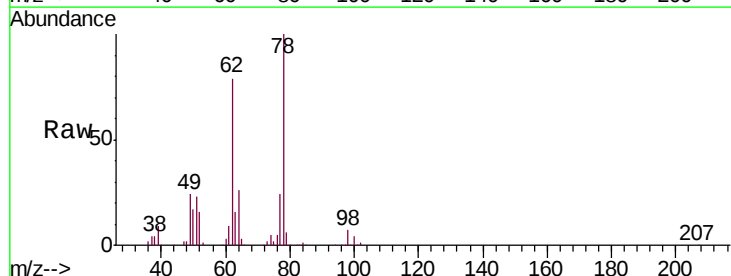
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

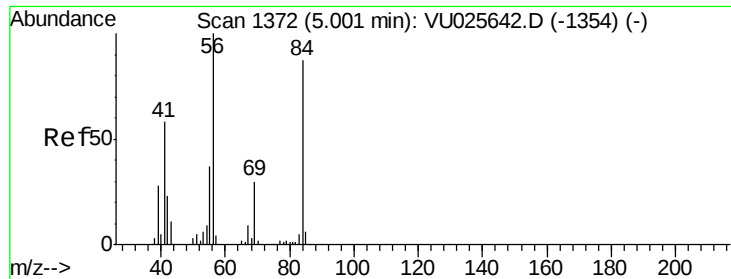
Tot Ion: 83 Resp: 193416
Ion Ratio Lower Upper
83 100
85 64.1 45.0 83.6



#27
1,2-Dichloroethane
Concen: 49.757 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

Tgt Ion: 62 Resp: 158618
Ion Ratio Lower Upper
62 100
98 8.8 6.5 9.7

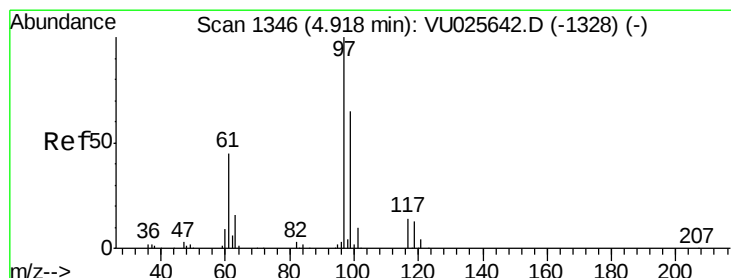
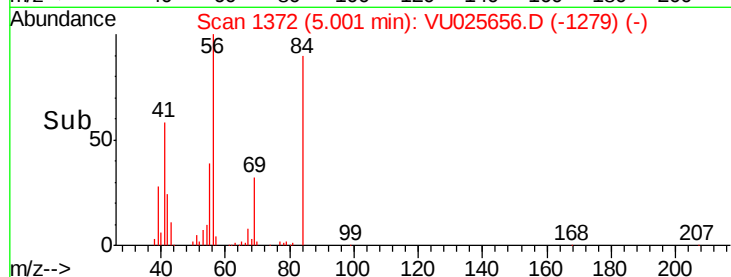
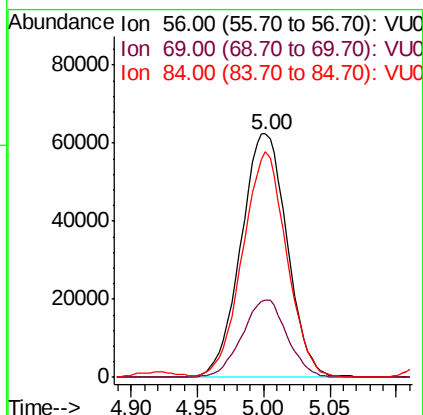
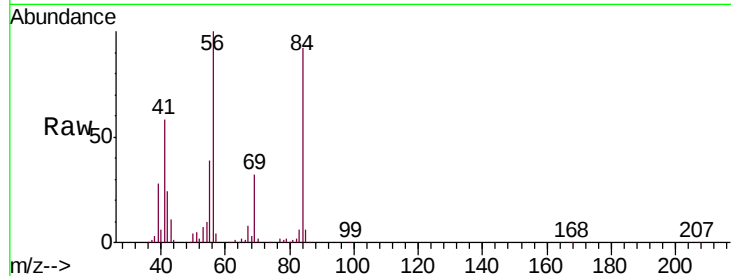




#29
Cyclohexane
Concen: 45.648 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. -0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

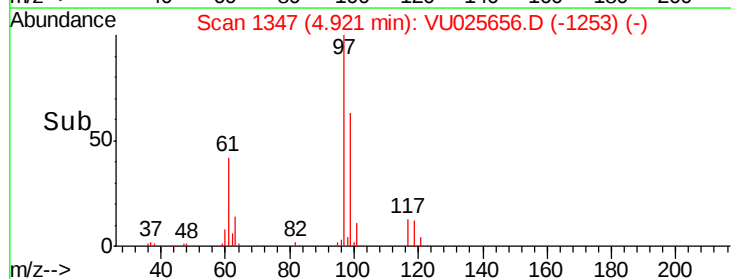
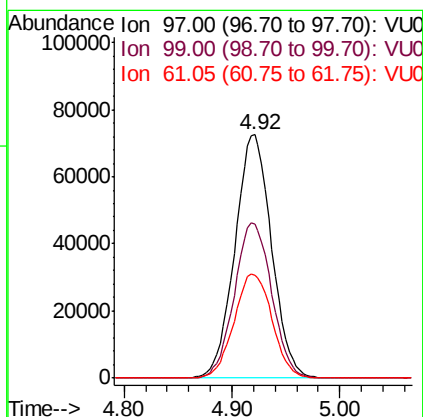
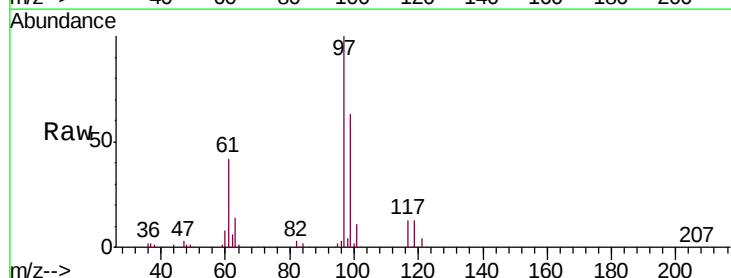
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

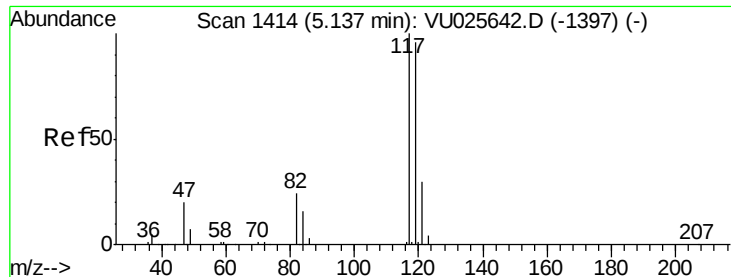
Tot Ion: 56 Resp: 151275
Ion Ratio Lower Upper
56 100
69 31.0 24.8 37.2
84 88.6 70.6 106.0



#30
1,1,1-Trichloroethane
Concen: 47.974 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

Tgt Ion: 97 Resp: 171719
Ion Ratio Lower Upper
97 100
99 64.8 52.4 78.6
61 44.2 34.6 52.0





#31

Carbon tetrachloride

Concen: 46.997 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

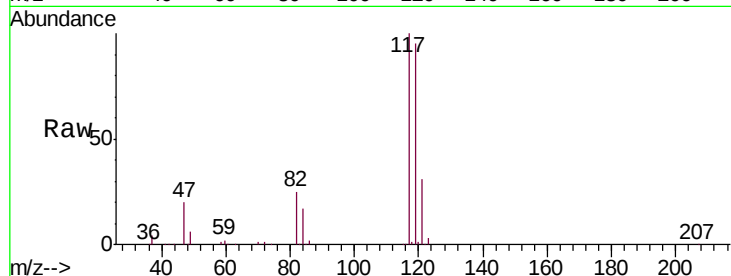
VSTD05042

Tot Ion:117 Resp: 155550

Ion Ratio Lower Upper

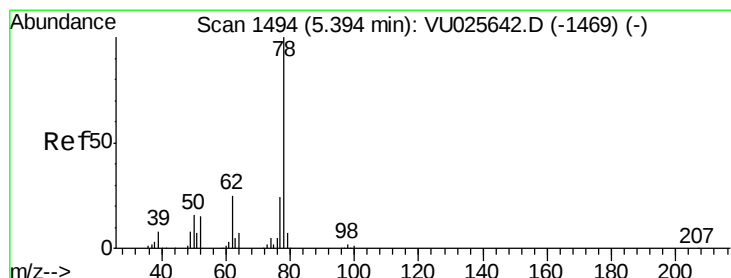
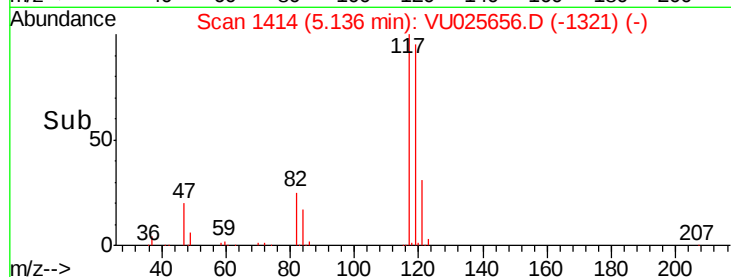
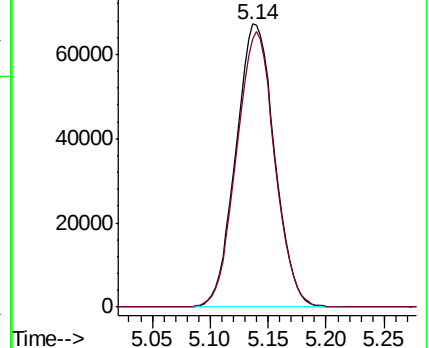
117 100

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: 47.649 ug/L

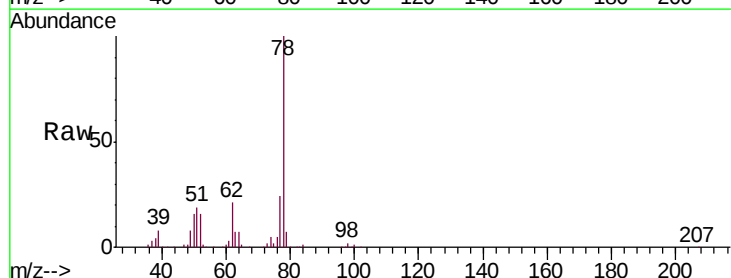
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

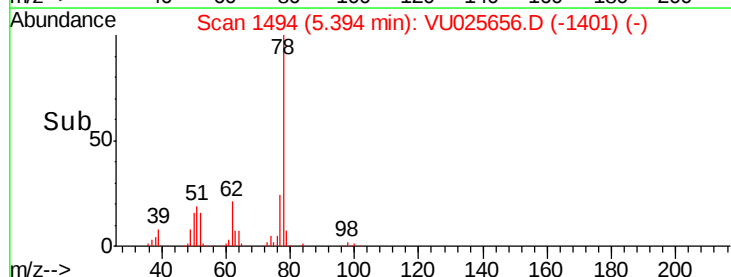
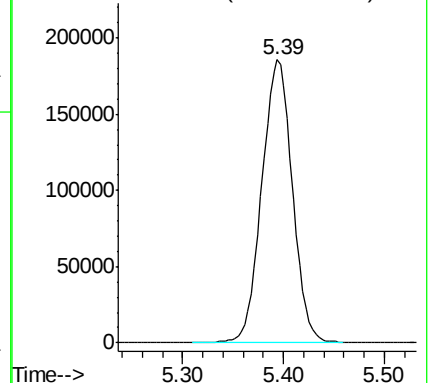
Lab File: VU025656.D

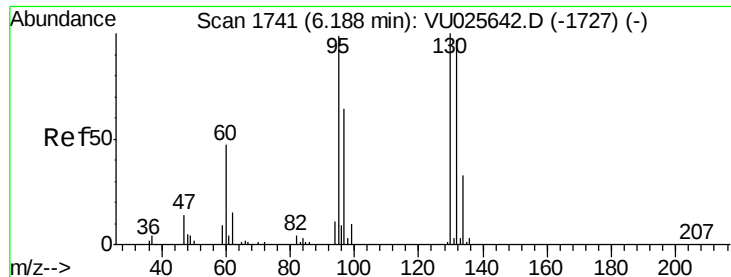
Acq: 26 Jul 2018 18:55

Tgt Ion: 78 Resp: 391628



Abundance Ion 78.00 (77.70 to 78.70): VU0

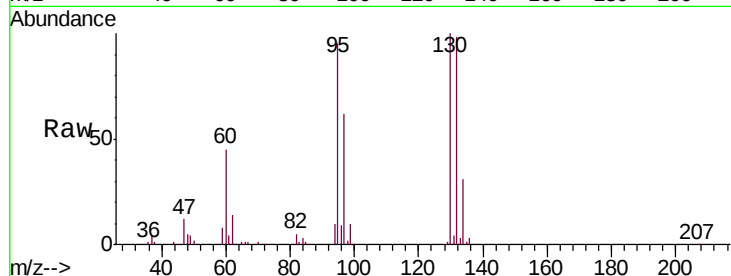




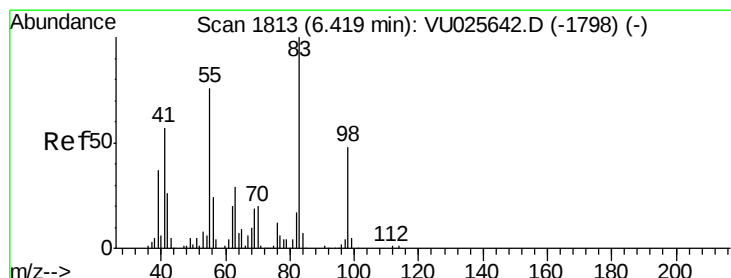
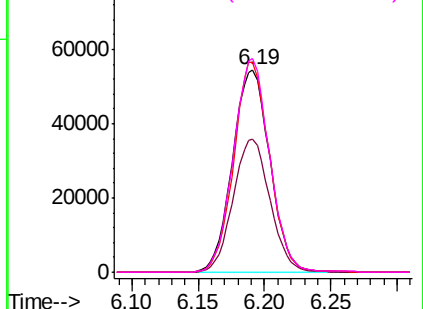
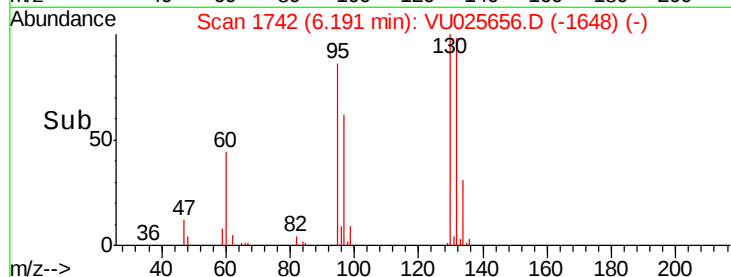
#34
 Trichloroethene
 Concen: 49.014 ug/L
 RT: 6.19 min Scan# 1742
 Delta R.T. 0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tot Ion:	95	Resp:	106887
Ion	Ratio	Lower	Upper
95	100		
97	65.8	45.9	85.3
132	103.3	72.2	134.2
130	105.4	74.9	139.1

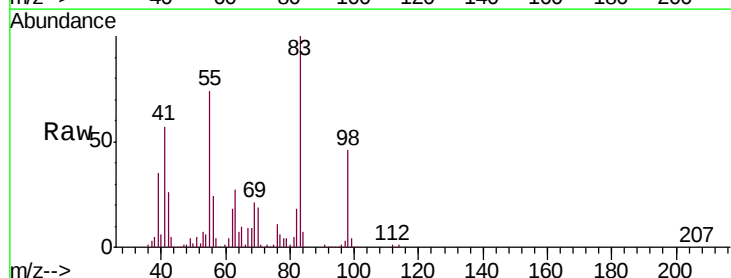


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

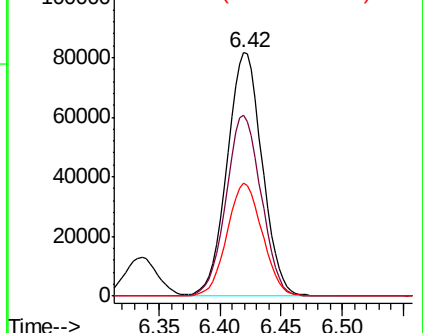
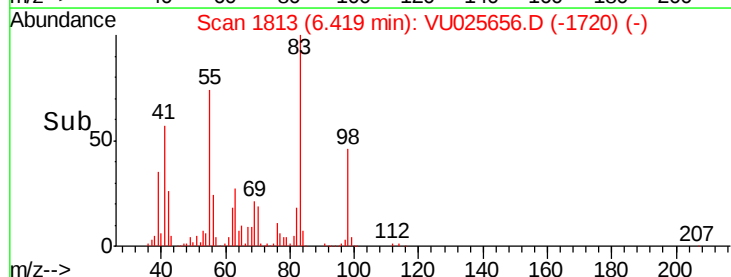


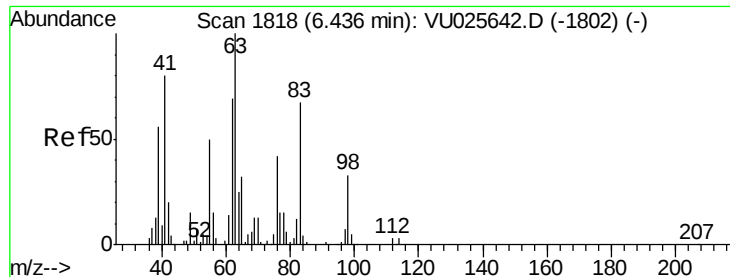
#35
 Methylcyclohexane
 Concen: 46.394 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Tgt Ion:	83	Resp:	163134
Ion	Ratio	Lower	Upper
83	100		
55	74.8	61.1	91.7
98	46.8	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

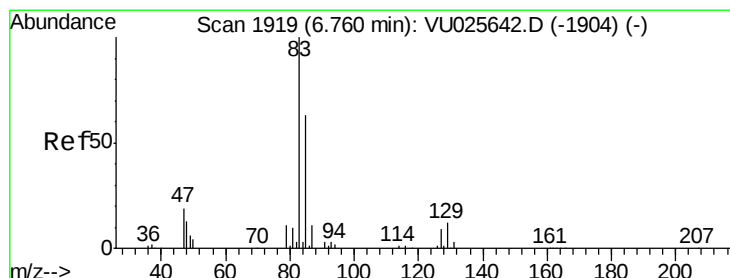
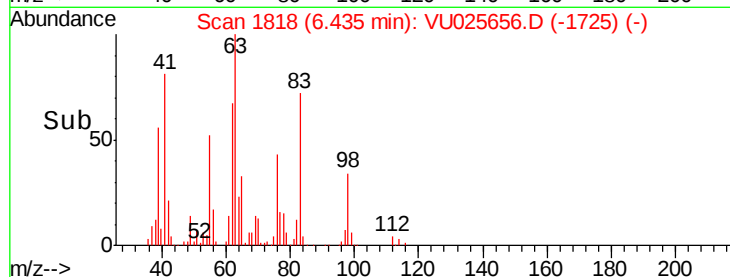
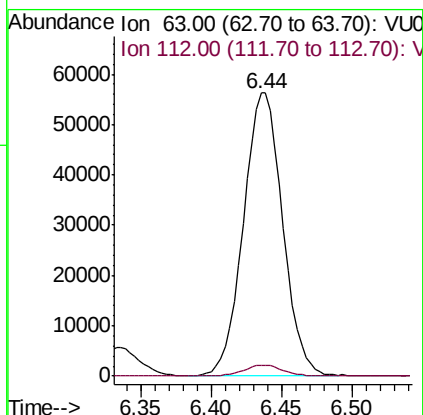
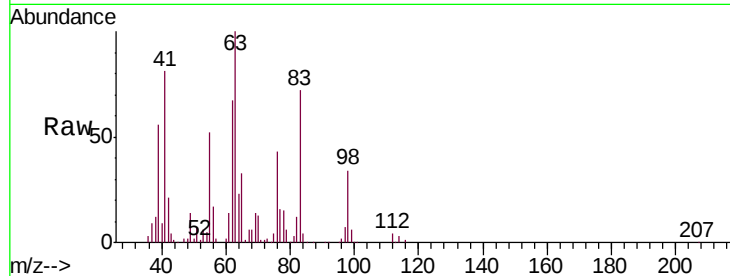




#37
 1,2-Dichloropropane
 Concen: 48.526 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

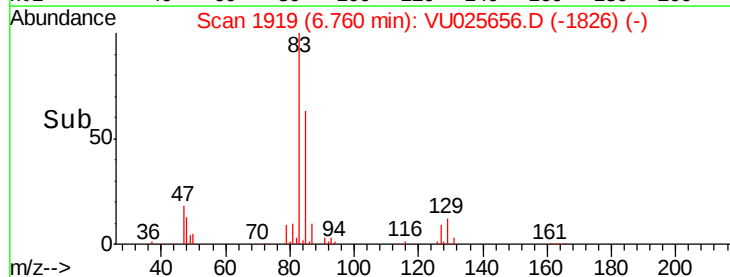
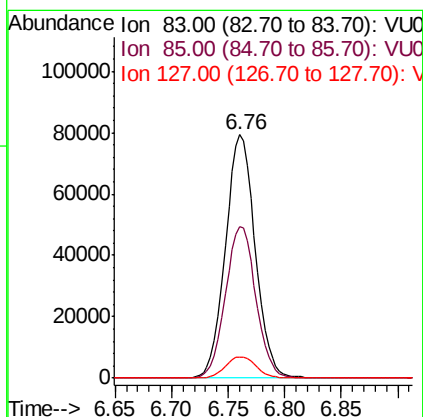
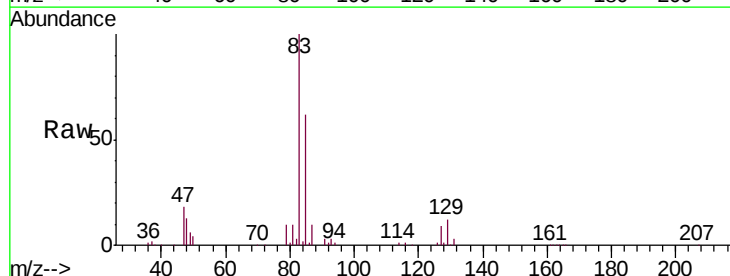
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

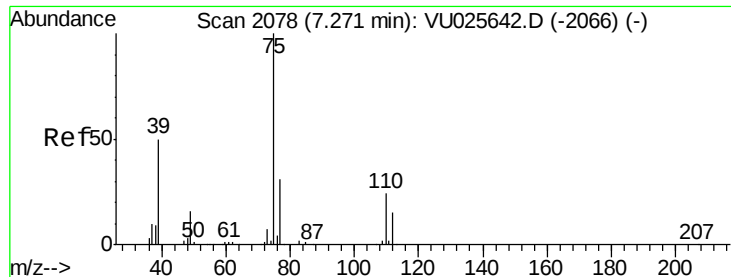
Tot Ion: 63 Resp: 108988
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.3 4.9



#38
 Bromodichloromethane
 Concen: 49.099 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Tgt Ion: 83 Resp: 145393
 Ion Ratio Lower Upper
 83 100
 85 62.3 46.7 86.7
 127 8.7 8.0 12.0

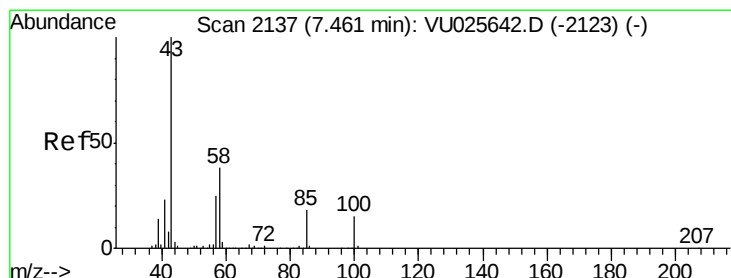
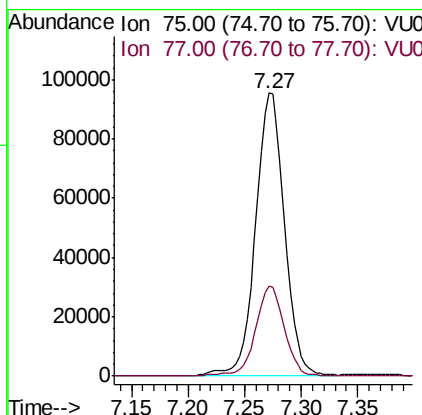
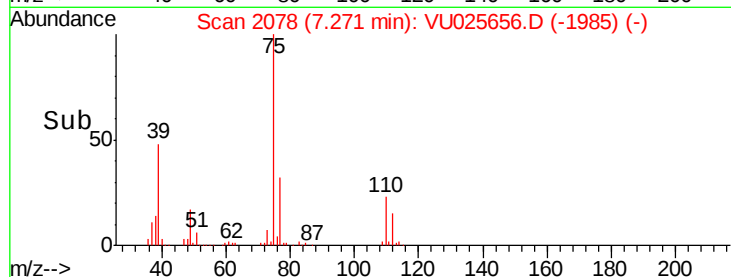
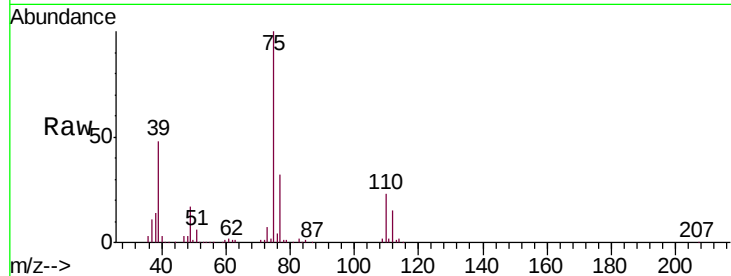




#39
 cis-1,3-Dichloropropene
 Concen: 48.830 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

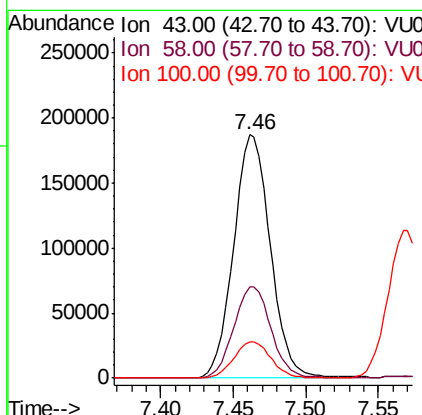
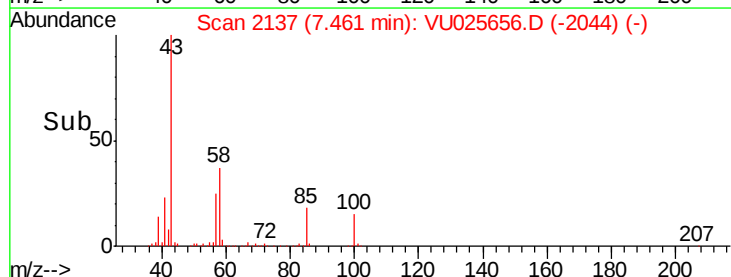
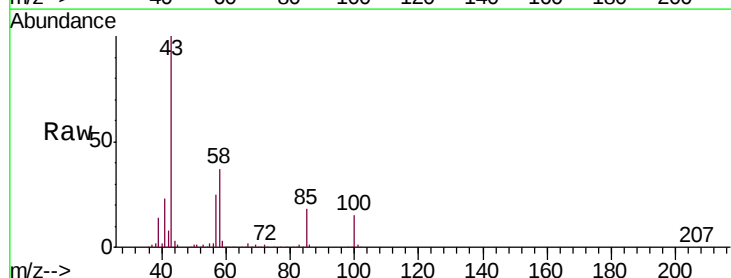
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05042

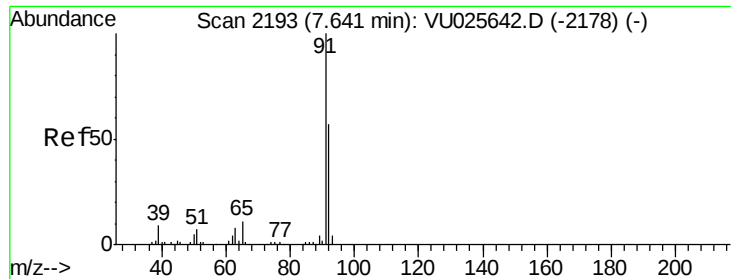
Tot Ion: 75 Resp: 170196
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 111.451 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Tgt Ion: 43 Resp: 328719
 Ion Ratio Lower Upper
 43 100
 58 38.3 30.8 46.2
 100 15.2 12.1 18.1





#42

Toluene

Concen: 48.472 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

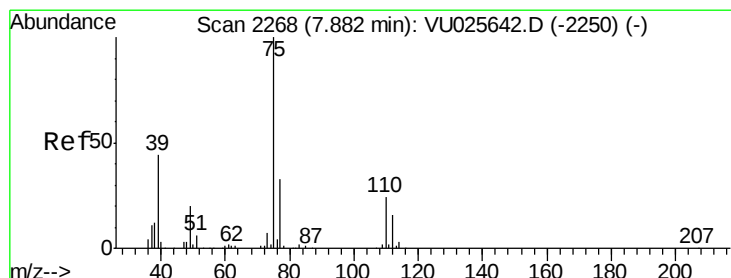
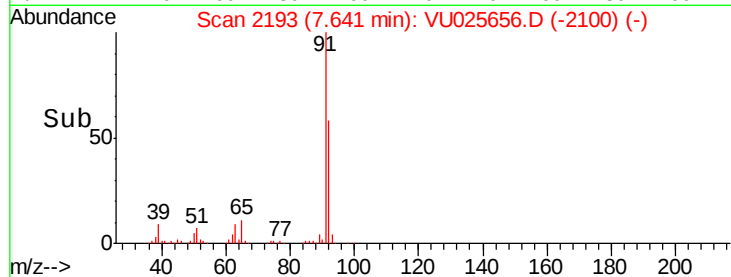
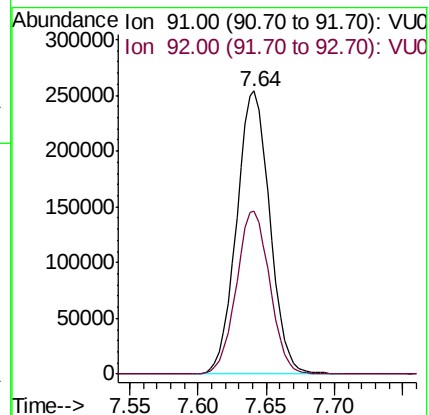
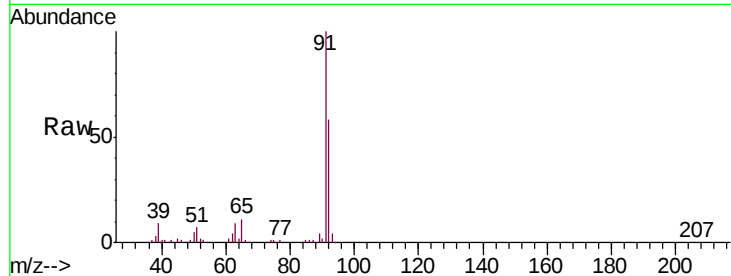
VSTD05042

Tot Ion: 91 Resp: 429631

Ion Ratio Lower Upper

91 100

92 57.8 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 50.290 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025656.D

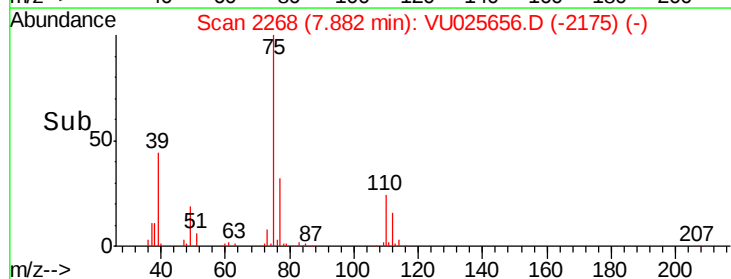
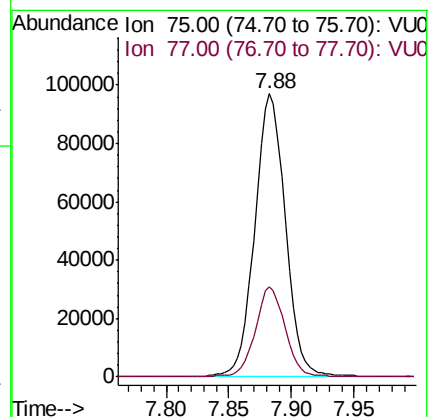
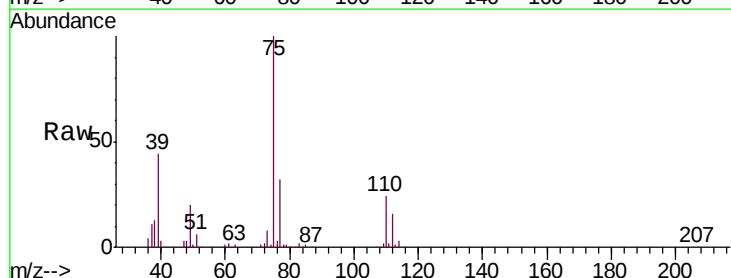
Acq: 26 Jul 2018 18:55

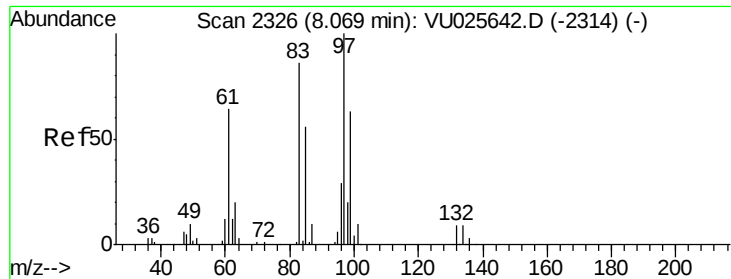
Tgt Ion: 75 Resp: 165271

Ion Ratio Lower Upper

75 100

77 31.9 22.2 41.2

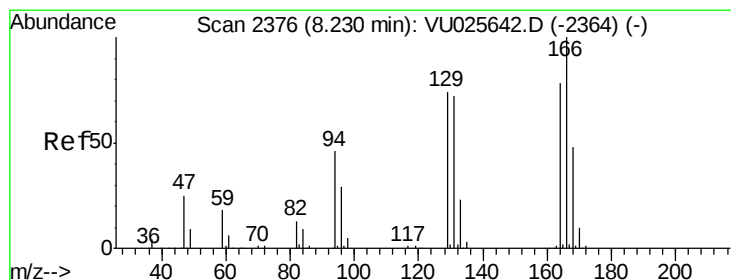
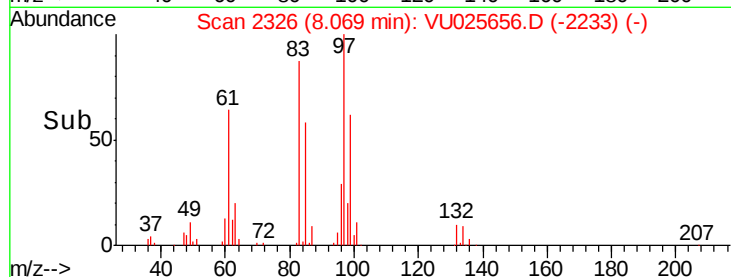
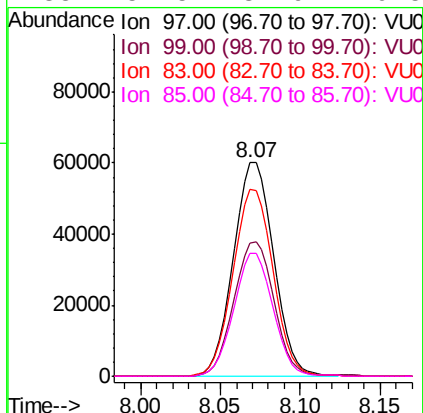
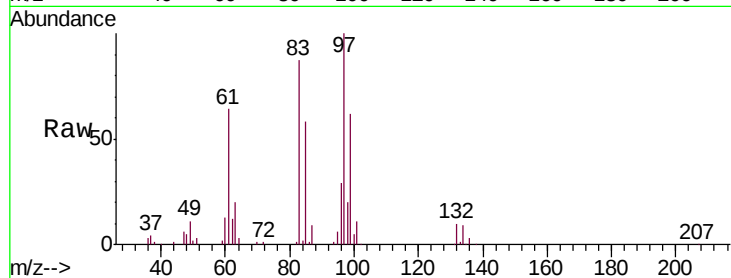




#45
1,1,2-Trichloroethane
Concen: 48.037 ug/L
RT: 8.07 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

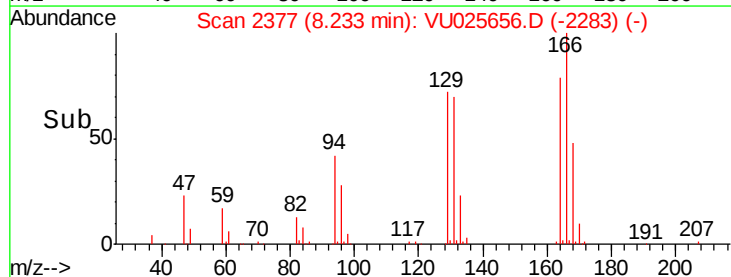
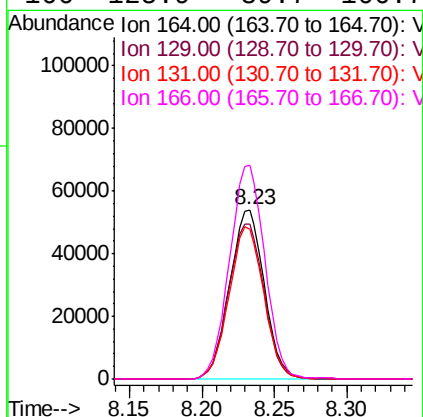
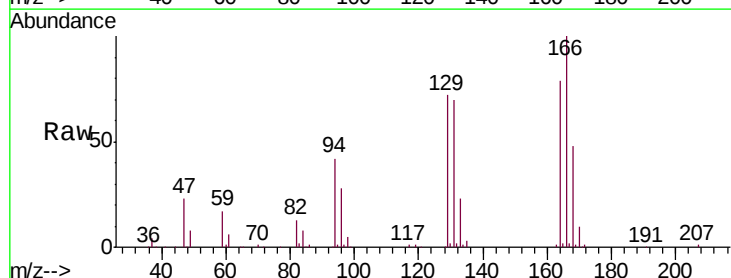
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

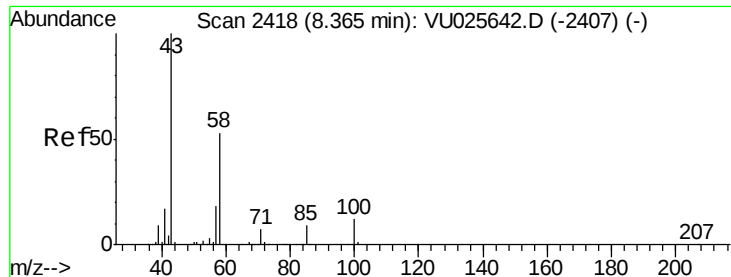
Tot Ion:	97	Resp:	103487
Ion	Ratio	Lower	Upper
97	100		
99	62.1	44.3	82.3
83	87.4	59.8	111.1
85	57.5	37.9	70.5



#46
Tetrachloroethene
Concen: 47.456 ug/L
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

Tgt Ion:	164	Resp:	89718
Ion	Ratio	Lower	Upper
164	100		
129	91.0	65.1	120.9
131	88.6	62.8	116.6
166	125.9	89.7	166.7

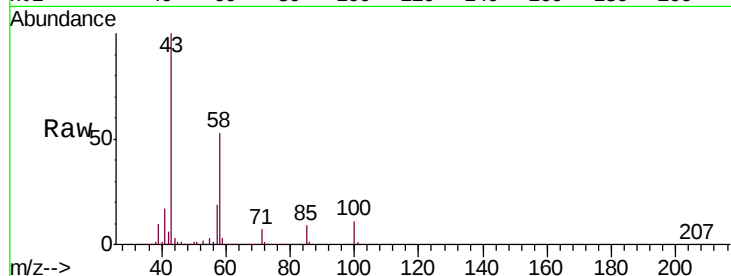




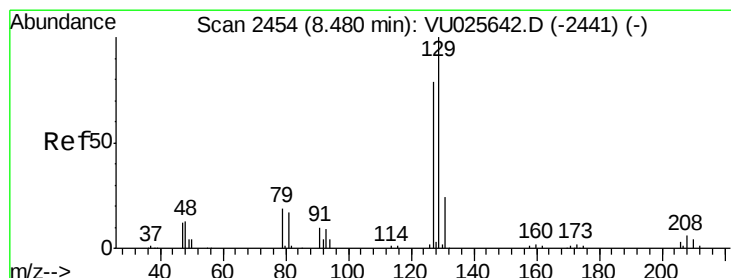
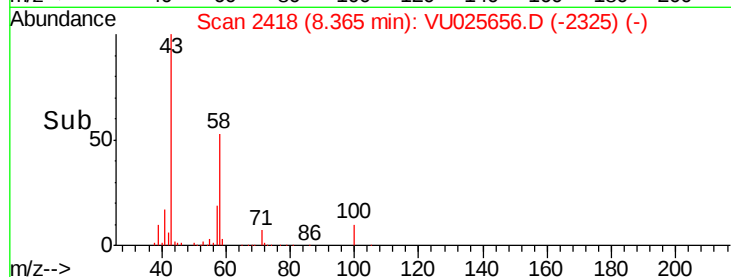
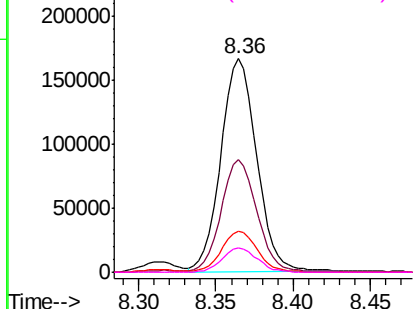
#48
2-Hexanone
Concen: 106.795 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

Tot Ion:	43	Resp:	266159
Ion	Ratio	Lower	Upper
43	100		
58	52.8	42.9	64.3
57	19.4	15.4	23.2
100	11.2	9.6	14.4

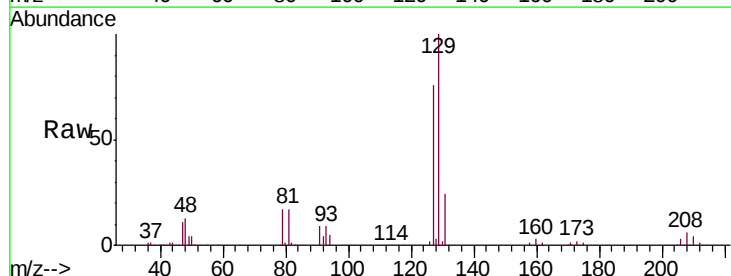


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

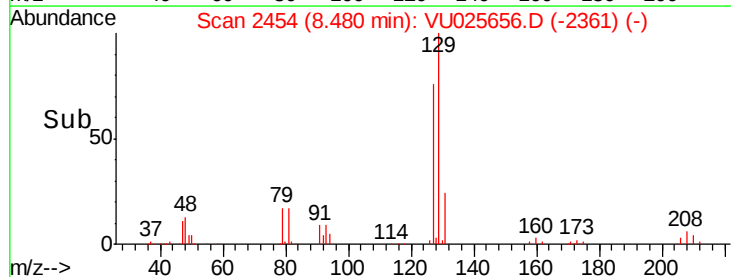
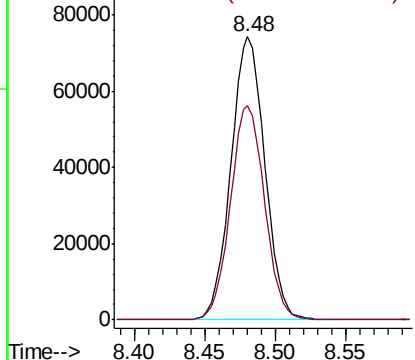


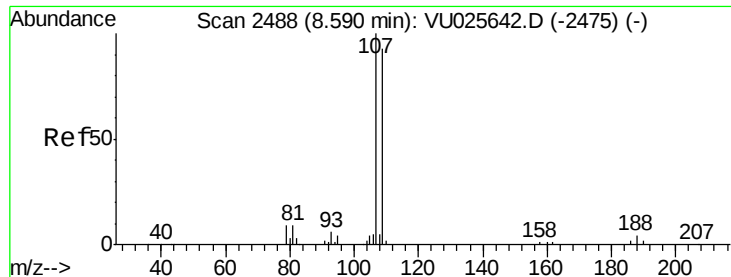
#49
Dibromochloromethane
Concen: 49.598 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

Tgt Ion:	129	Resp:	125341
Ion	Ratio	Lower	Upper
129	100		
127	75.9	53.8	100.0



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

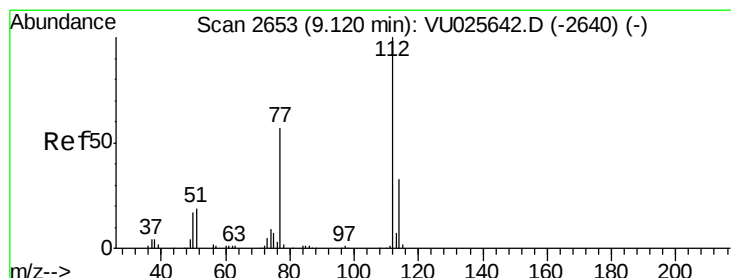
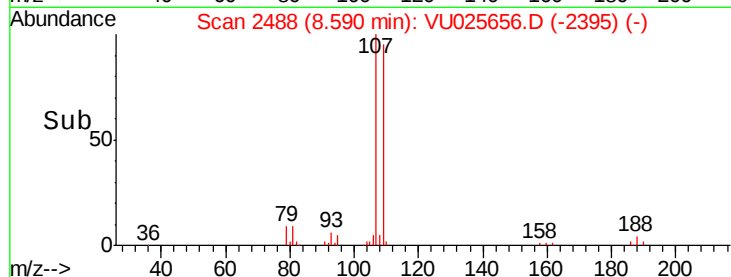
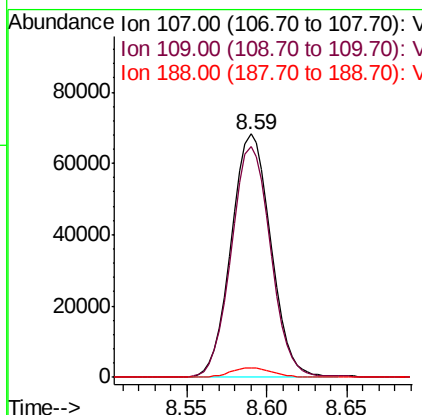
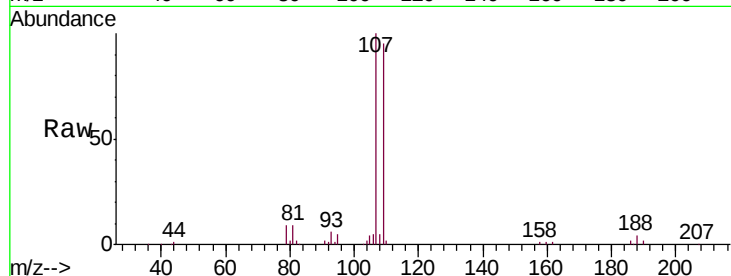




#50
1,2-Dibromoethane
Concen: 49.711 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. -0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

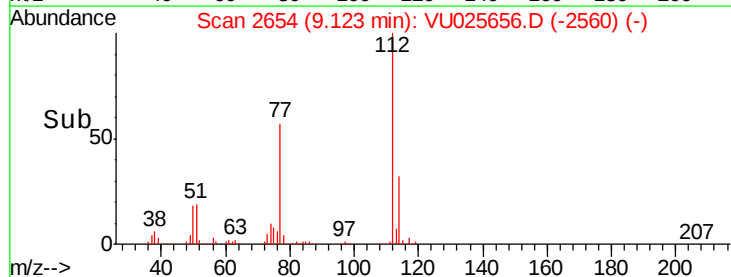
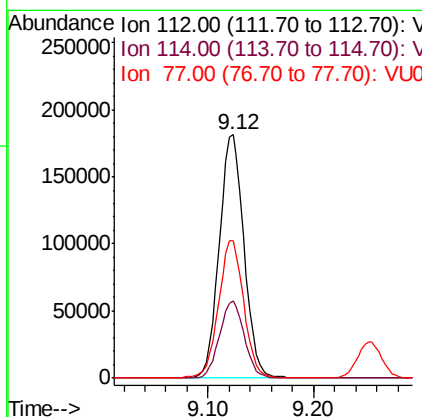
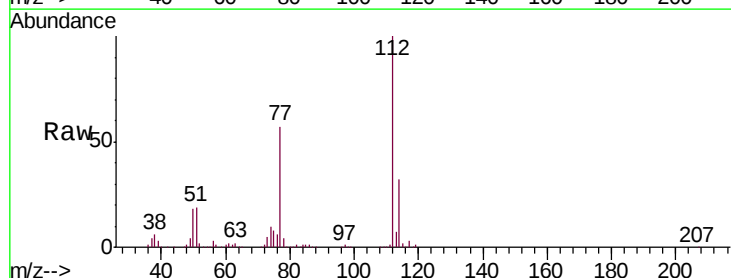
Instrument :
MSVOA_U
ClientSampleId :
VSTD05042

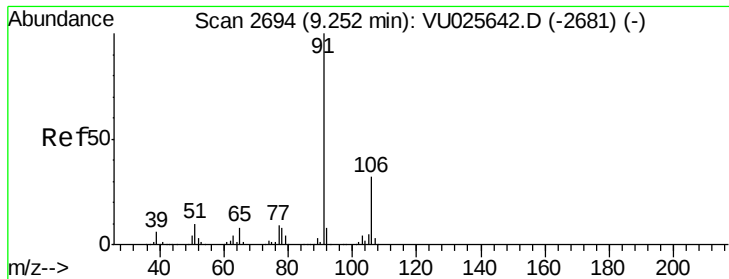
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	66.6	123.8
188	4.0	3.2	4.8



#51
Chlorobenzene
Concen: 49.209 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025656.D
Acq: 26 Jul 2018 18:55

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.5	41.9
77	56.5	45.8	68.8





#52

Ethylbenzene

Concen: 49.166 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

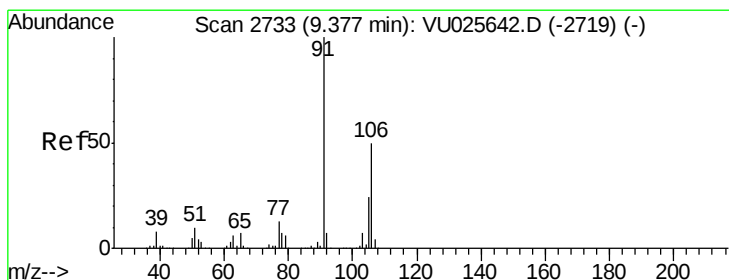
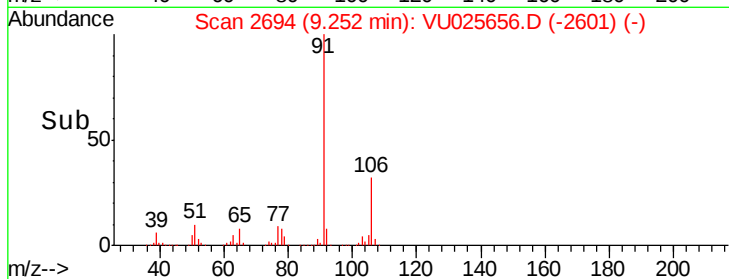
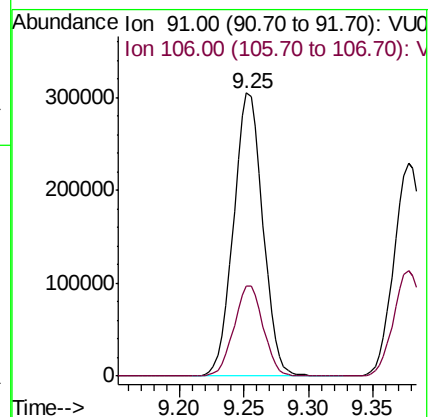
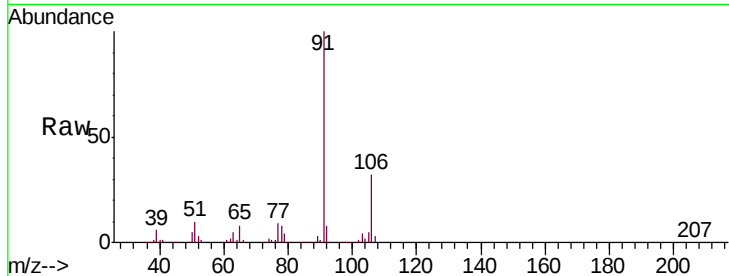
VSTD05042

Tot Ion: 91 Resp: 480981

Ion Ratio Lower Upper

91 100

106 31.8 22.3 41.5



#53

m,p-Xylene

Concen: 50.046 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025656.D

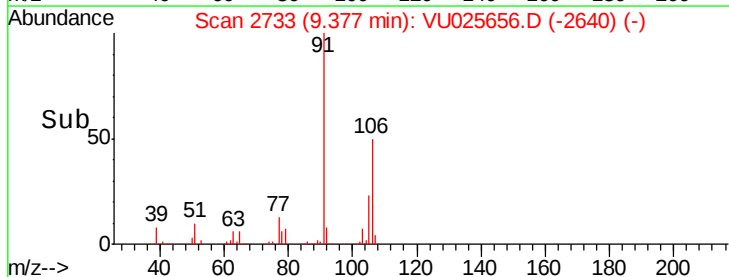
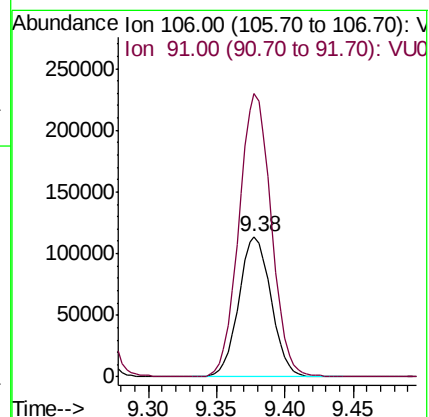
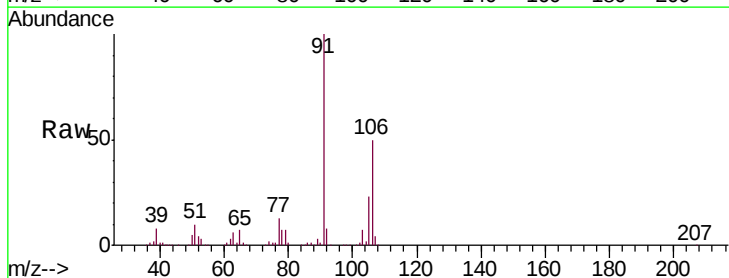
Acq: 26 Jul 2018 18:55

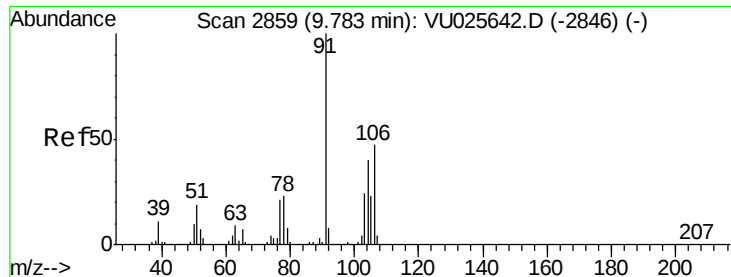
Tgt Ion: 106 Resp: 187531

Ion Ratio Lower Upper

106 100

91 201.8 141.7 263.3





#54

o-xylene

Concen: 48.135 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

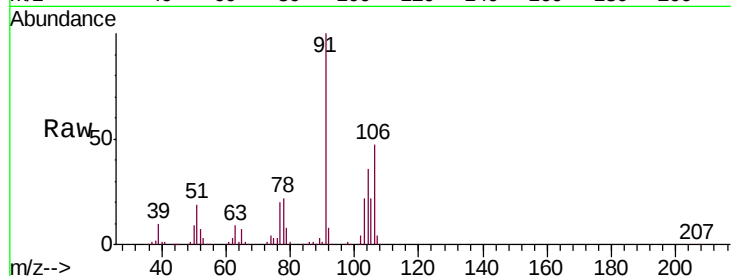
VSTD05042

Tot Ion:106 Resp: 183023

Ion Ratio Lower Upper

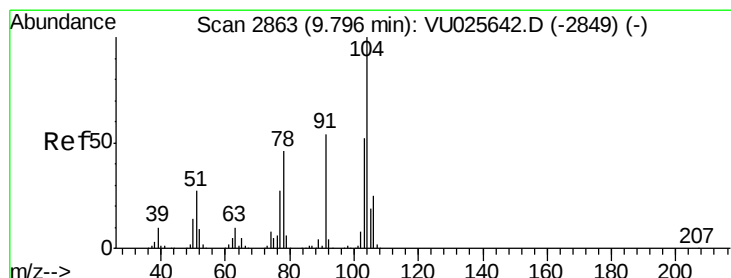
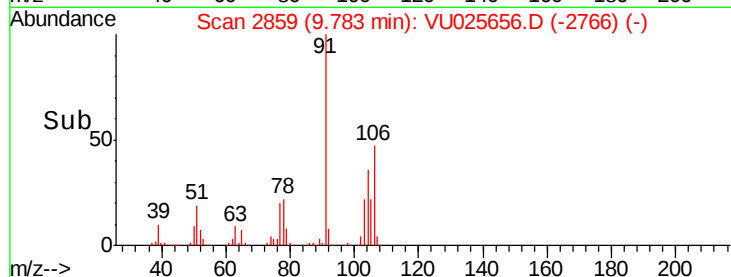
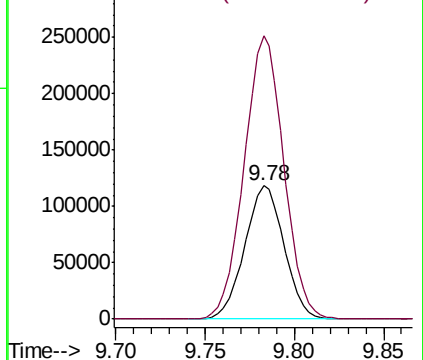
106 100

91 212.4 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.171 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU025656.D

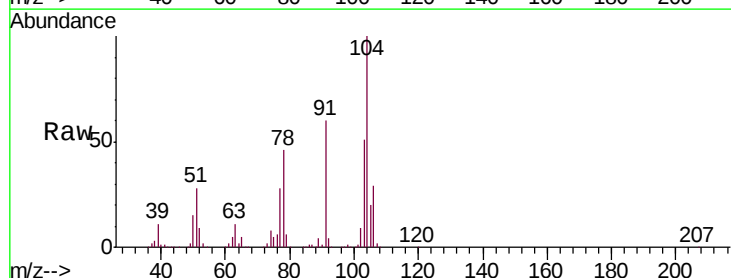
Acq: 26 Jul 2018 18:55

Tgt Ion:104 Resp: 316888

Ion Ratio Lower Upper

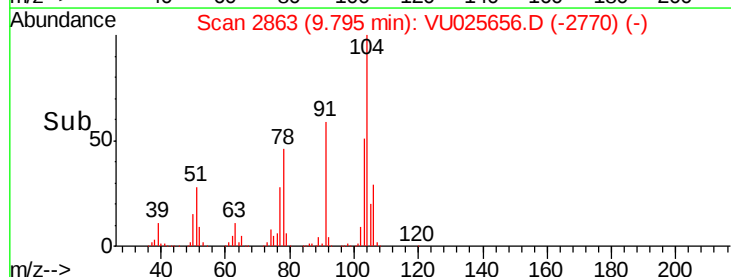
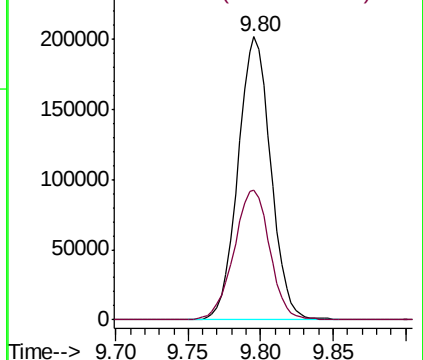
104 100

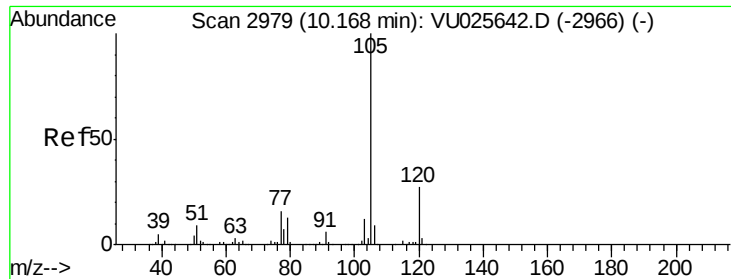
78 46.1 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.874 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

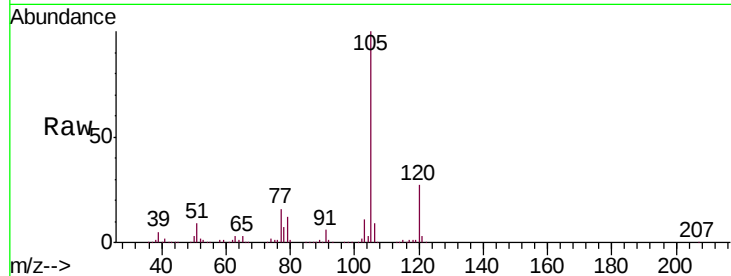
Tot Ion:105 Resp: 489389

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

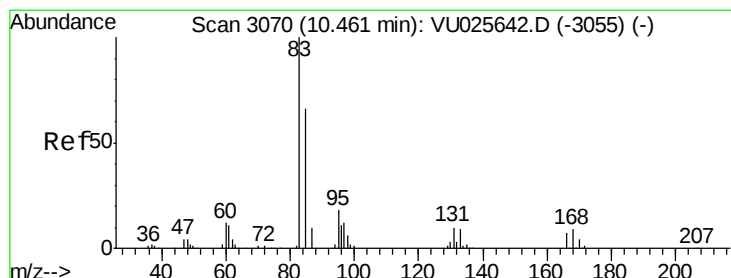
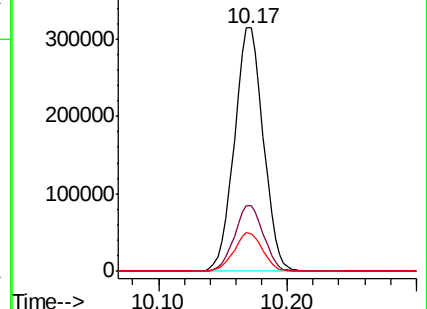
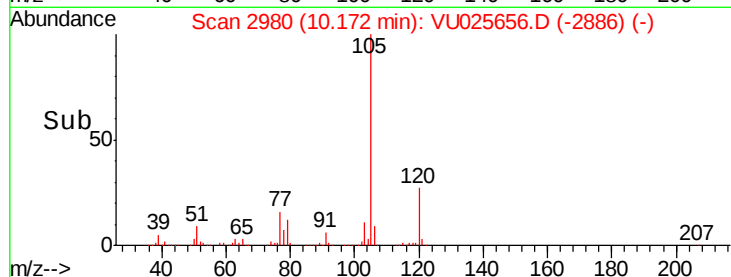
77 15.6 12.4 18.6



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: 51.521 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

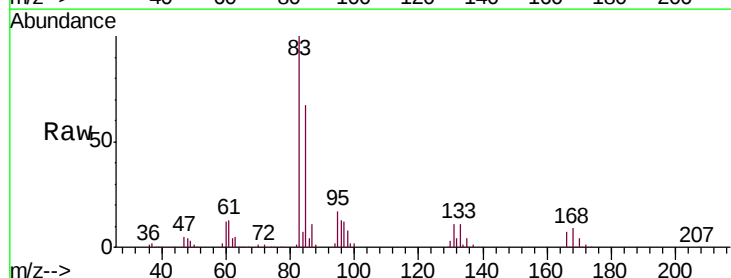
Tgt Ion: 83 Resp: 179034

Ion Ratio Lower Upper

83 100

85 66.6 45.1 83.7

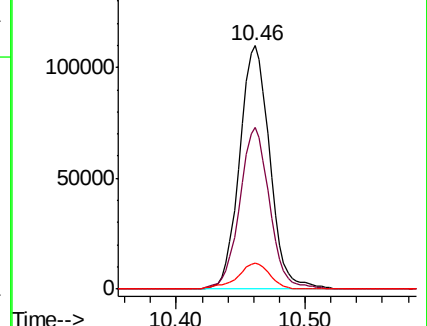
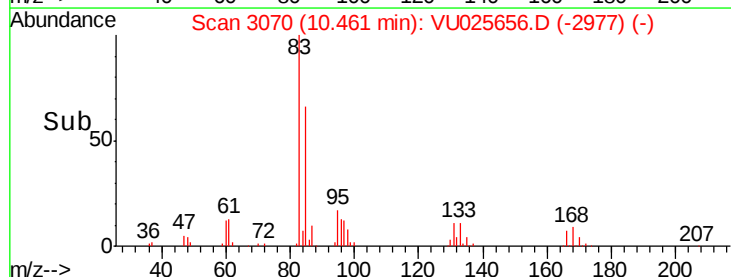
131 10.6 8.7 13.1

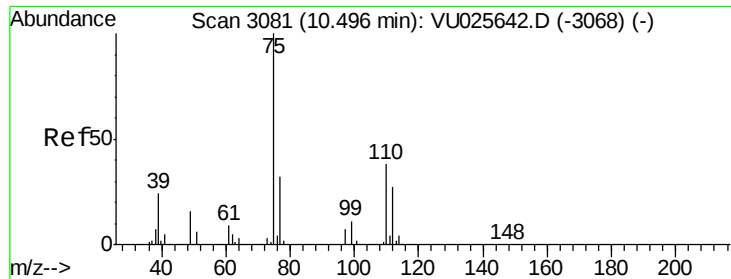


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

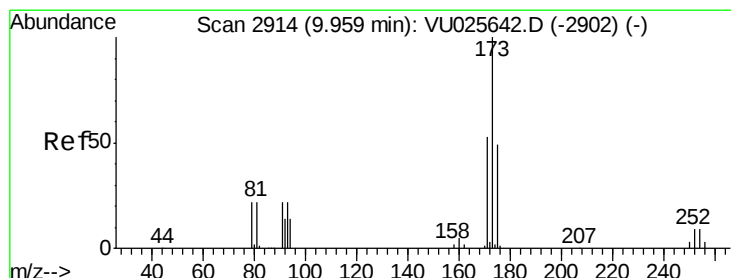
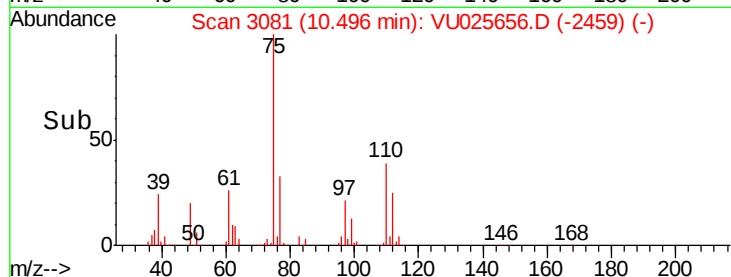
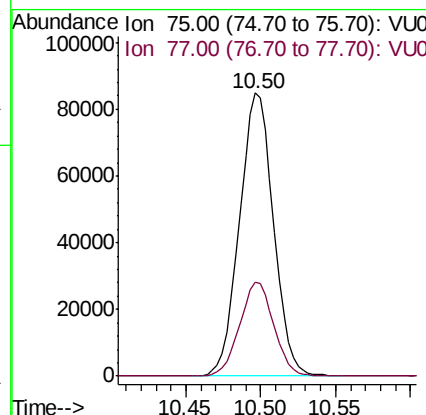
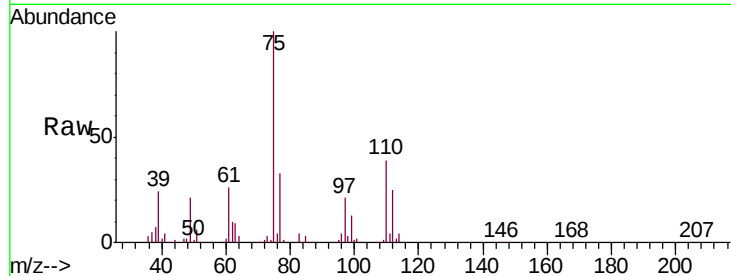




#59
 1,2,3-Trichloropropane
 Concen: 50.820 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

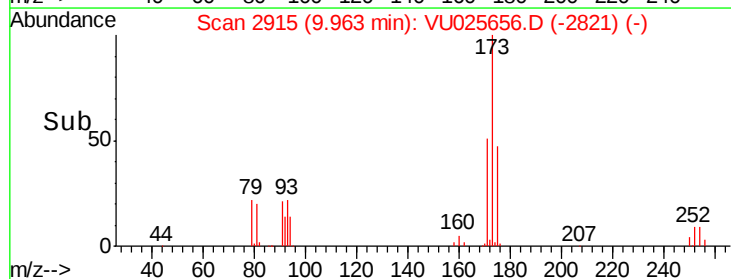
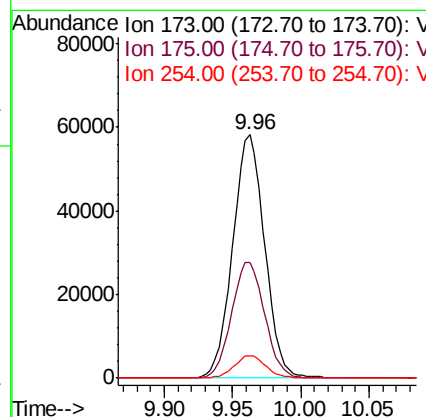
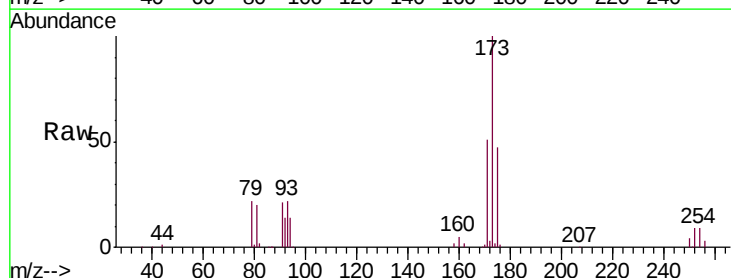
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

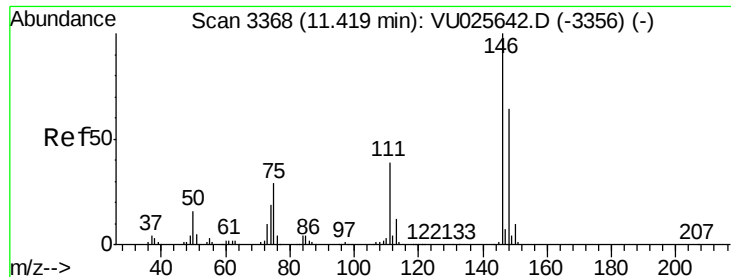
Tot Ion: 75 Resp: 134065
 Ion Ratio Lower Upper
 75 100
 77 33.4 25.8 38.8



#61
 Bromoform
 Concen: 46.511 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Tgt Ion: 173 Resp: 94849
 Ion Ratio Lower Upper
 173 100
 175 49.1 39.8 59.8
 254 9.2 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 47.929 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

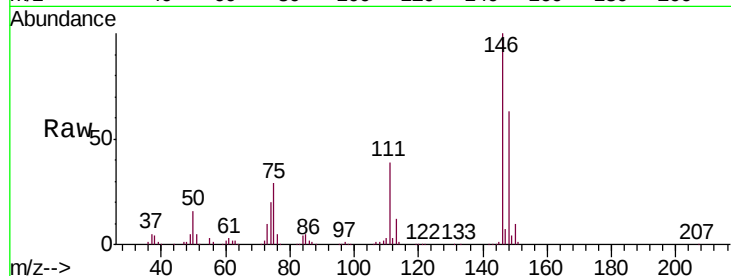
Tot Ion:146 Resp: 239021

Ion Ratio Lower Upper

146 100

111 39.1 27.7 51.5

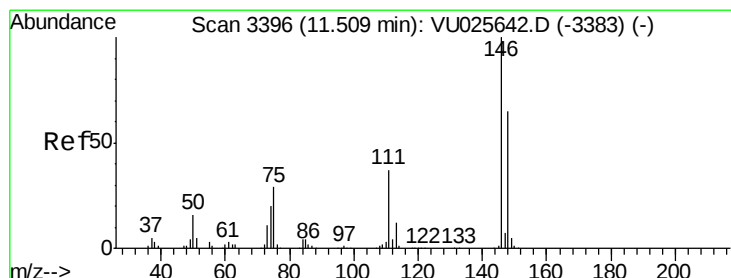
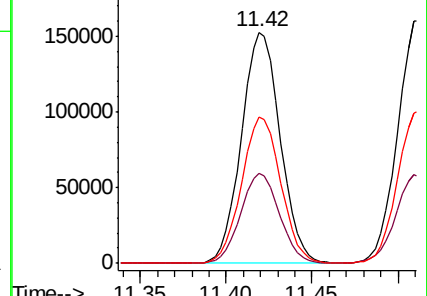
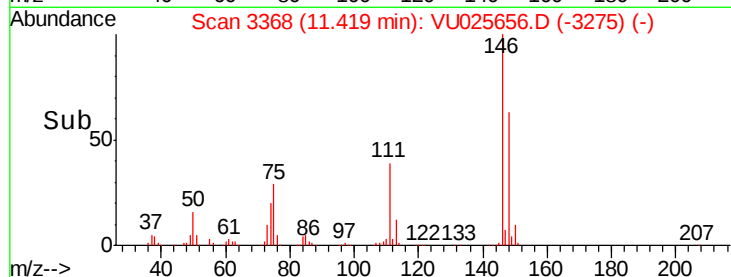
148 63.0 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.476 ug/L

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

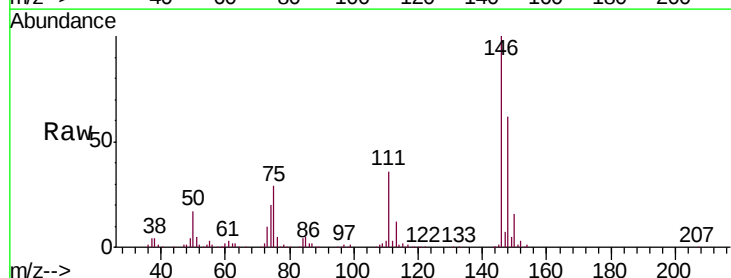
Tgt Ion:146 Resp: 246771

Ion Ratio Lower Upper

146 100

111 35.8 26.9 49.9

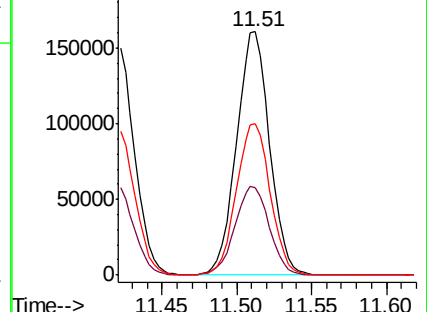
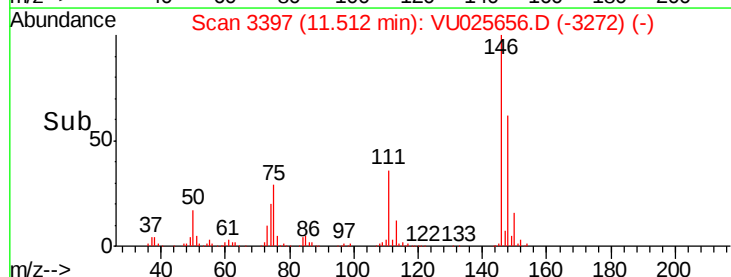
148 62.3 44.6 82.8

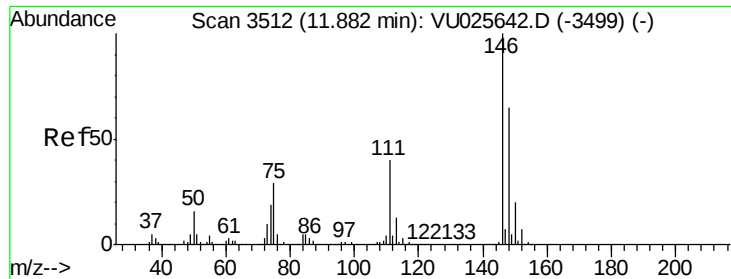


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

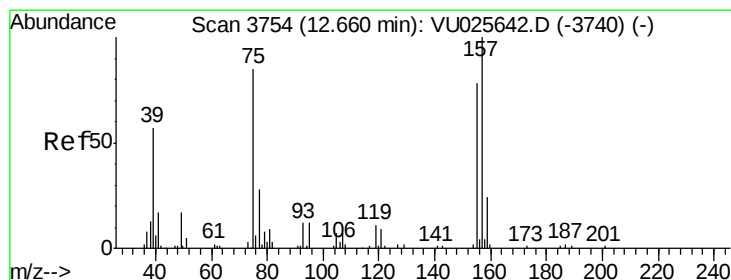
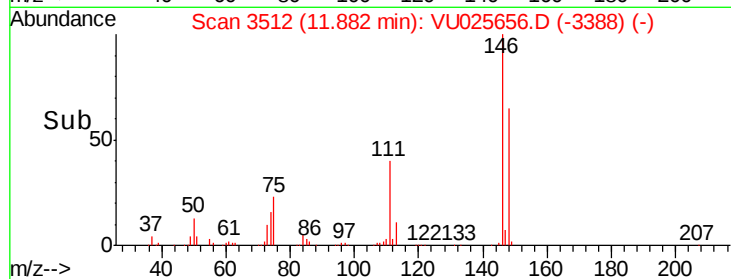
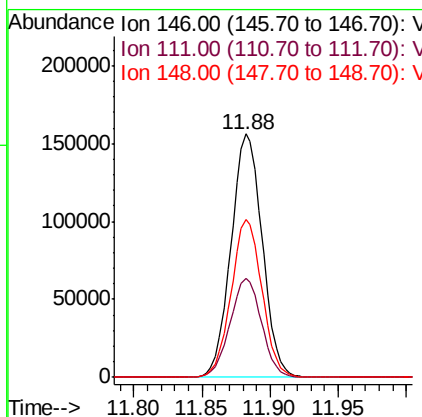
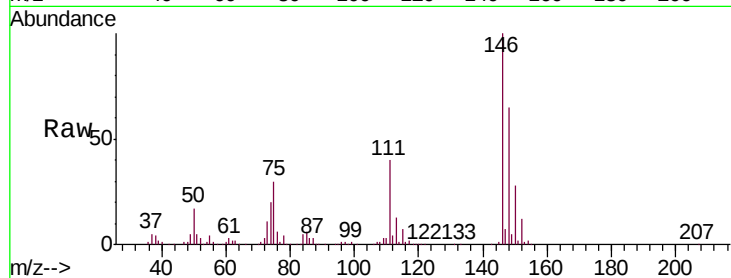




#65
 1,2-Dichlorobenzene
 Concen: 47.446 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

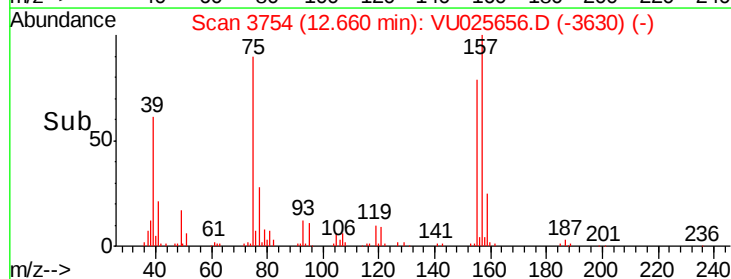
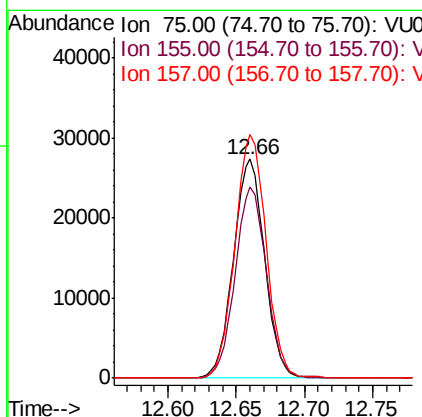
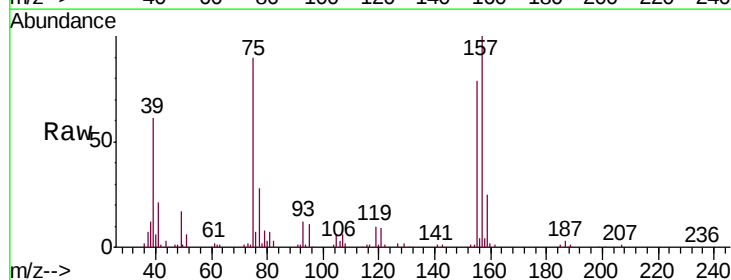
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

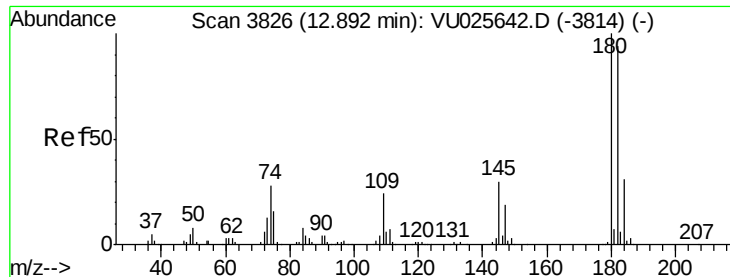
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	32.4	48.6
148	65.1	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.860 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.4	66.3	99.5
157	111.2	91.5	137.3

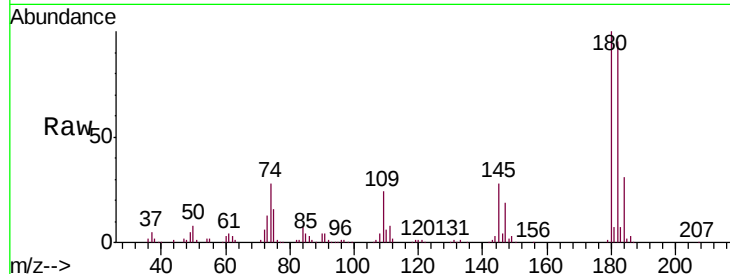




#67
 1,3,5-Trichlorobenzene
 Concen: 50.414 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05042

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	77.3	115.9
184	30.3	24.6	36.8
145	28.5	23.0	34.6



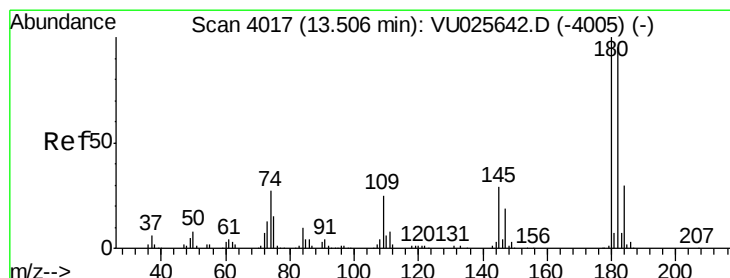
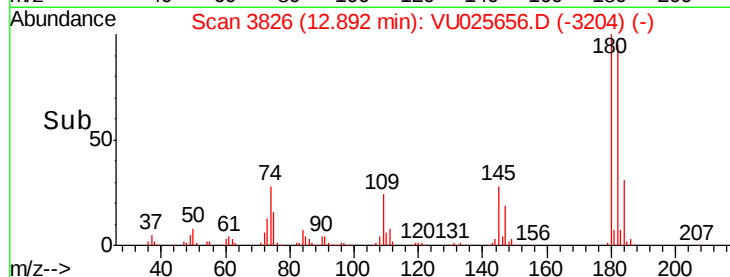
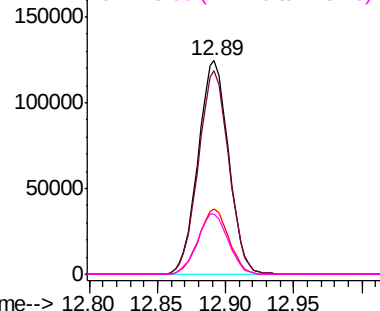
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

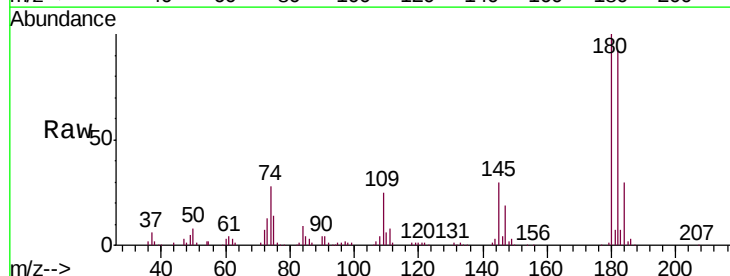
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.323 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025656.D
 Acq: 26 Jul 2018 18:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	78.1	117.1
145	30.2	23.4	35.2

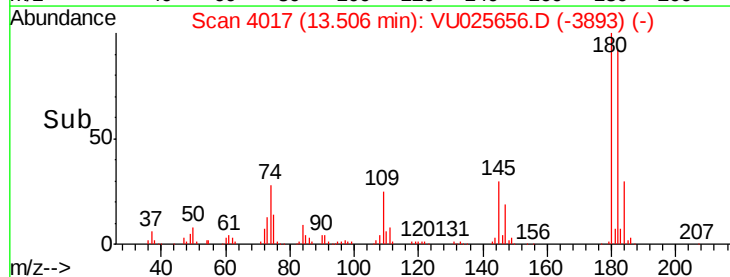
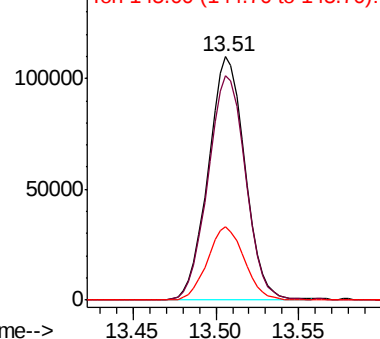


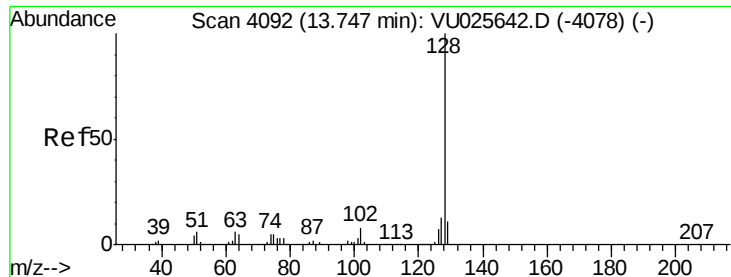
Abundance

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: 53.934 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD05042

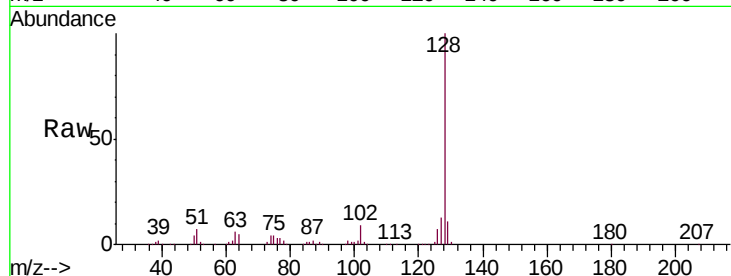
Tot Ion:128 Resp: 524738

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

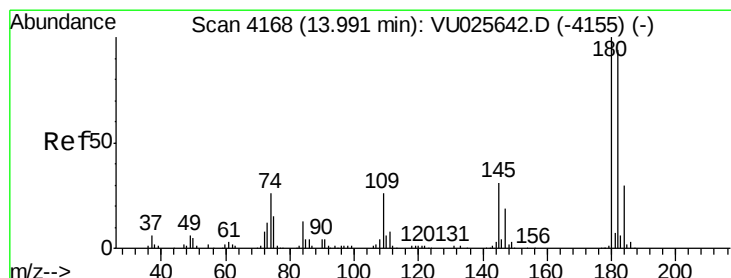
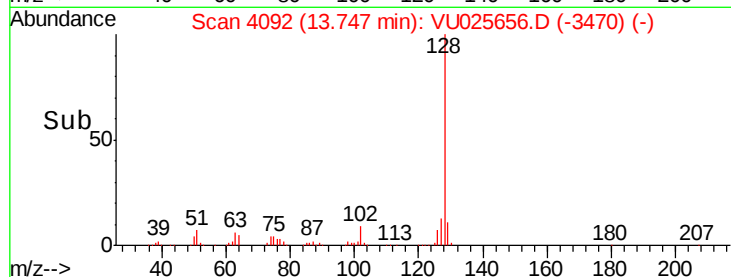
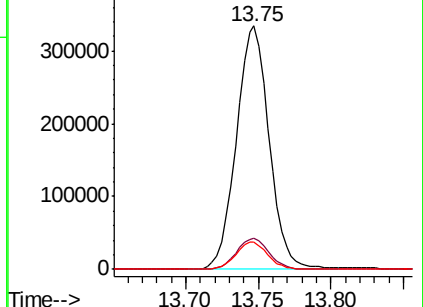
129 10.9 8.4 12.6



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: 51.420 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. -0.00 min

Lab File: VU025656.D

Acq: 26 Jul 2018 18:55

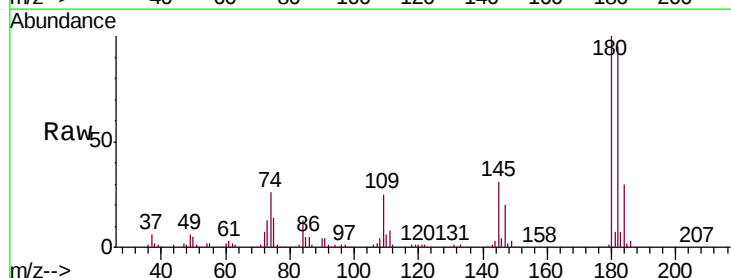
Tgt Ion:180 Resp: 175858

Ion Ratio Lower Upper

180 100

182 96.1 76.6 114.8

145 30.8 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

