

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080418\
 Data File : VU025819.D
 Acq On : 03 Aug 2018 15:28
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Quant Time: Aug 03 23:49:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 03 04:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	284918	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	276563	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	146377	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	81378	50.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.06%
7) Chloroethane-d5	1.68	69	66206	49.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.68%
11) 1,1-Dichloroethene-d2	2.27	63	163976	48.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.84%
21) 2-Butanone-d5	4.18	46	129975	103.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.50%
24) Chloroform-d	4.65	84	186805	51.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.12%
26) 1,2-Dichloroethane-d4	5.31	65	121907	50.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.76%
32) Benzene-d6	5.34	84	350107	49.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.72%
36) 1,2-Dichloropropane-d6	6.33	67	112931	49.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.82%
41) Toluene-d8	7.57	98	344953	50.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.42%
43) trans-1,3-Dichloropropene-	7.85	79	57836	49.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.08%
47) 2-Hexanone-d5	8.31	63	95757	100.06	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.06%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	156690	49.02	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.04%
64) 1,2-Dichlorobenzene-d4	11.86	152	144795	48.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.62%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	120964	43.089	ug/L 99
3) Chloromethane	1.33	50	95736	47.222	ug/L 98
5) Vinyl chloride	1.40	62	98042	44.091	ug/L 96
6) Bromomethane	1.63	94	42080	54.418	ug/L 93
8) Chloroethane	1.70	64	59461	45.413	ug/L 99
9) Trichlorofluoromethane	1.89	101	148858	47.010	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	84899	47.878	ug/L 99
12) 1,1-Dichloroethene	2.28	96	72968	45.380	ug/L 97
13) Acetone	2.32	43	133880	90.832	ug/L 99
14) Carbon disulfide	2.48	76	234636	44.814	ug/L 100
15) Methyl Acetate	2.62	43	102598	50.355	ug/L 99
16) Methylene chloride	2.70	84	93531	46.696	ug/L 99
17) trans-1,2-Dichloroethene	2.98	96	86934	46.958	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	289208	47.967	ug/L 99
19) 1,1-Dichloroethane	3.45	63	169845	48.229	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	100064	47.884	ug/L 95
22) 2-Butanone	4.26	43	152472	92.922	ug/L 99

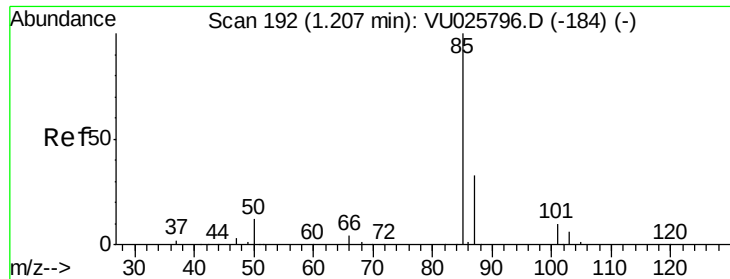
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080418\
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 Quant Title : VOC Analysis
 QLast Update : Fri Aug 03 04:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	52728	47.805	ug/L	97
25) Chloroform	4.68	83	177496	47.898	ug/L	96
27) 1,2-Dichloroethane	5.41	62	149344	49.409	ug/L	99
29) Cyclohexane	5.00	56	138952	43.367	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	160399	46.348	ug/L	100
31) Carbon tetrachloride	5.14	117	146858	45.892	ug/L	99
33) Benzene	5.39	78	364218	45.834	ug/L	100
34) Trichloroethene	6.19	95	99194	47.046	ug/L	98
35) Methylcyclohexane	6.42	83	147466	43.376	ug/L	99
37) 1,2-Dichloropropane	6.44	63	100849	46.442	ug/L	99
38) Bromodichloromethane	6.76	83	138034	48.212	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	159231	47.250	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	272792	95.661	ug/L	100
42) Toluene	7.64	91	400794	46.769	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	152979	48.146	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	95498	45.848	ug/L	97
46) Tetrachloroethene	8.23	164	84474	46.214	ug/L	98
48) 2-Hexanone	8.36	43	230205	95.536	ug/L	98
49) Dibromochloromethane	8.48	129	118188	48.371	ug/L	99
50) 1,2-Dibromoethane	8.59	107	103434	46.093	ug/L	100
51) Chlorobenzene	9.12	112	274008	47.494	ug/L	98
52) Ethylbenzene	9.25	91	445076	47.056	ug/L	99
53) m,p-Xylene	9.38	106	175666	48.487	ug/L	100
54) o-xylene	9.78	106	171137	46.553	ug/L	98
55) Styrene	9.80	104	293123	48.957	ug/L	99
56) Isopropylbenzene	10.17	105	449684	47.399	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	159305	47.415	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	119243	46.751	ug/L	100
61) Bromoform	9.96	173	88011	46.484	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	217334	46.939	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	226367	47.895	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	228425	47.091	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	36027	47.225	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	169831	47.518	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	146006	48.608	ug/L	98
69) Naphthalene	13.74	128	433845	48.029	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	154048	48.515	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 43.089 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

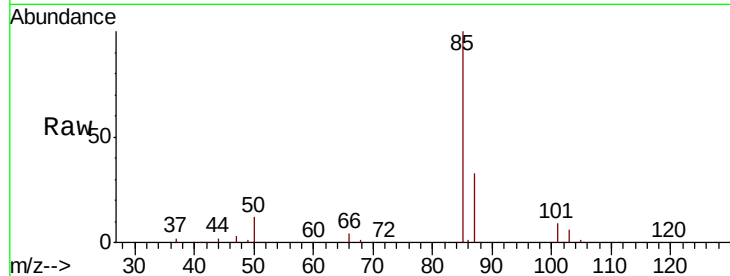
VSTD05050

Tgt Ion: 85 Resp: 120964

Ion Ratio Lower Upper

85 100

87 32.7 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU025819.D (-99) (-)

Ion 87.00 (86.70 to 87.70): VU025819.D (-99) (-)

1.20

120000

100000

80000

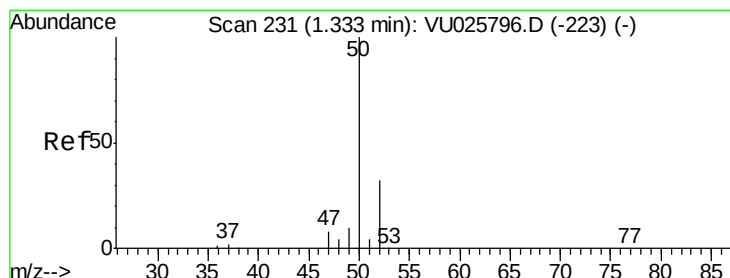
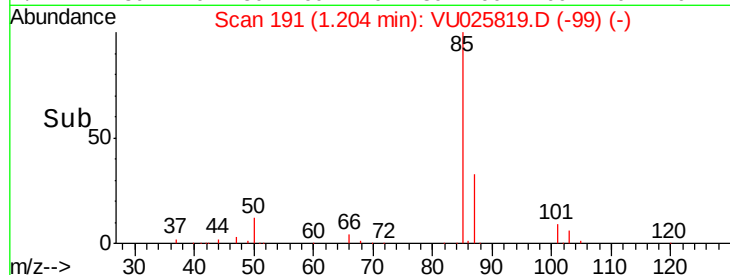
60000

40000

20000

0

Time--> 1.15 1.20 1.25 1.30



#3

Chloromethane

Concen: 47.222 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025819.D

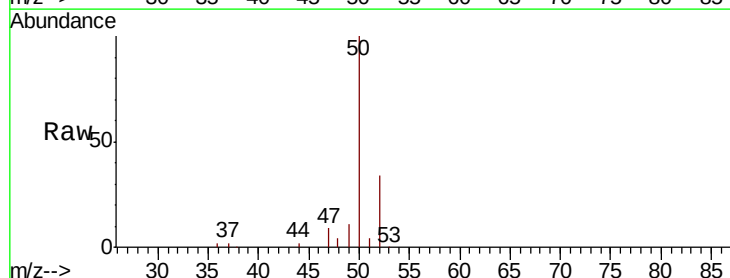
Acq: 03 Aug 2018 15:28

Tgt Ion: 50 Resp: 95736

Ion Ratio Lower Upper

50 100

52 34.1 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU025819.D (-137) (-)

Ion 52.00 (51.70 to 52.70): VU025819.D (-137) (-)

1.33

100000

80000

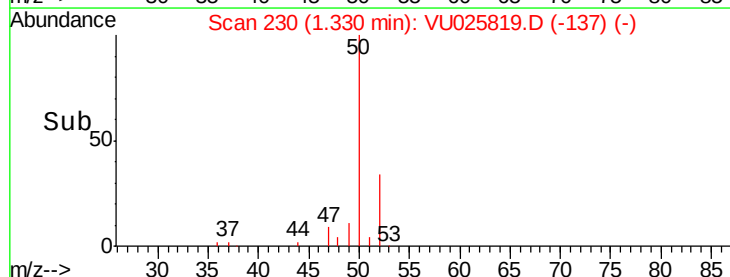
60000

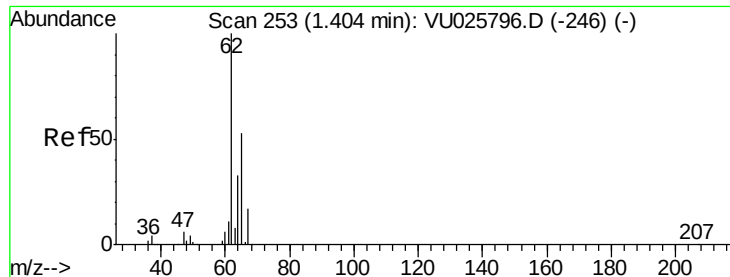
40000

20000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 44.091 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

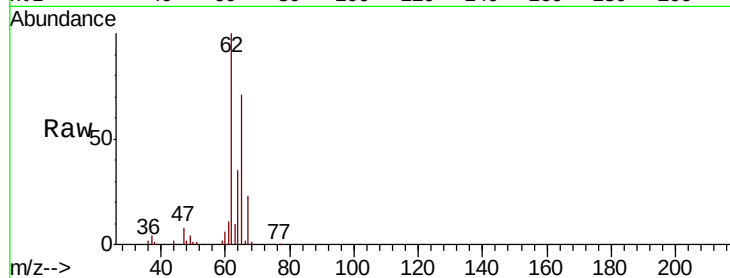
VSTD05050

Tgt Ion: 62 Resp: 98042

Ion Ratio Lower Upper

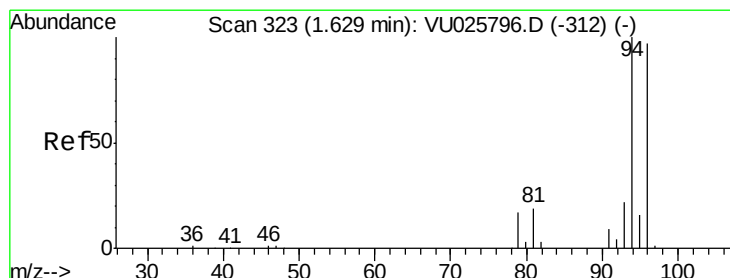
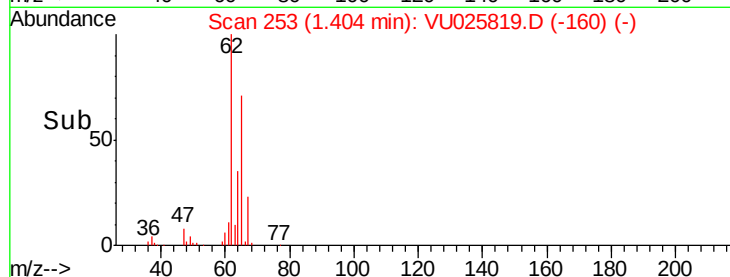
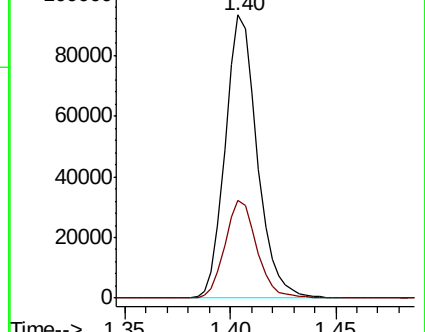
62 100

64 34.7 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 54.418 ug/L

RT: 1.63 min Scan# 323

Delta R.T. 0.00 min

Lab File: VU025819.D

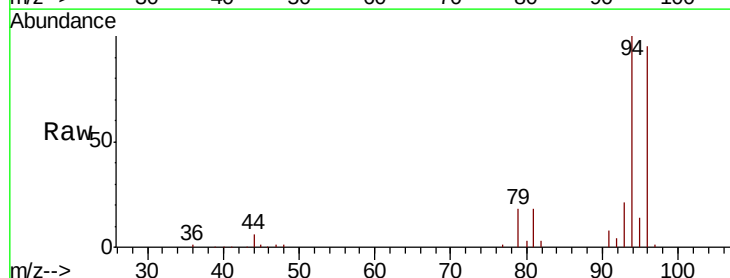
Acq: 03 Aug 2018 15:28

Tgt Ion: 94 Resp: 42080

Ion Ratio Lower Upper

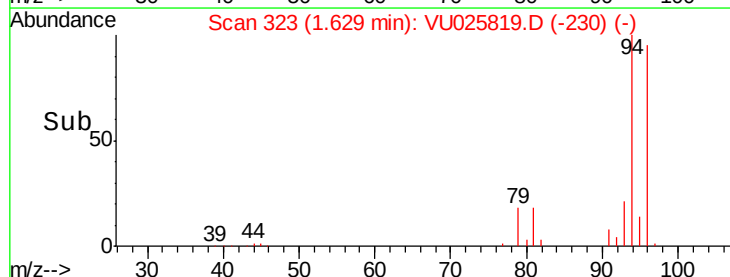
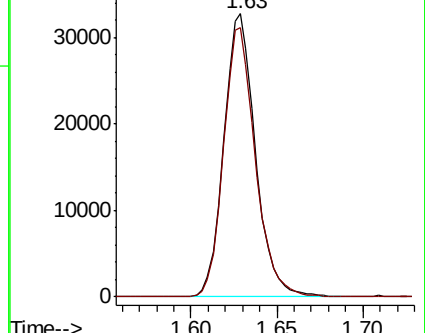
94 100

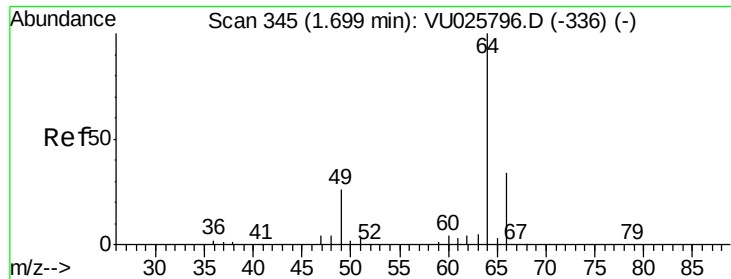
96 95.2 62.4 115.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

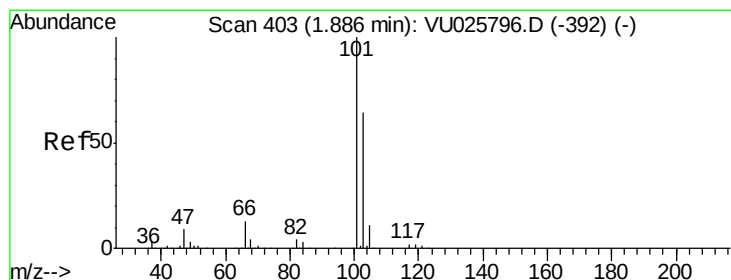
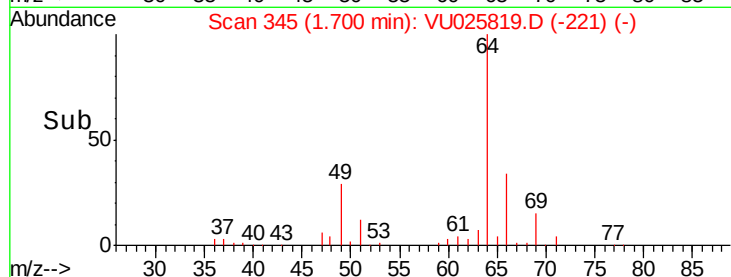
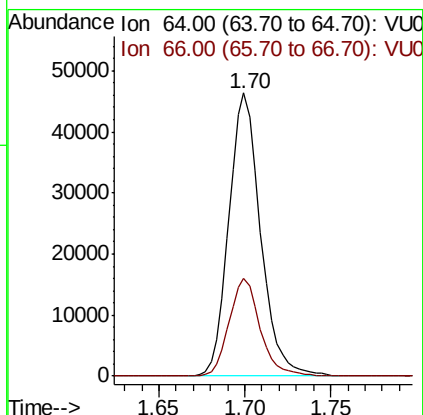
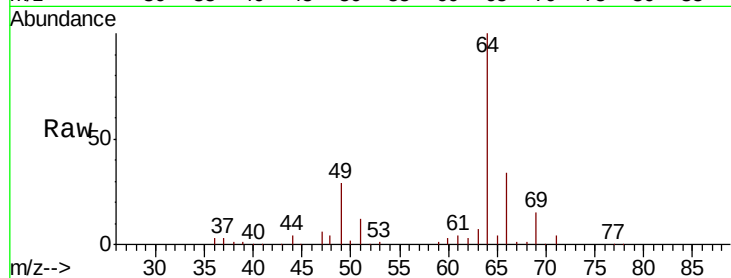




#8
 Chloroethane
 Concen: 45.413 ug/L
 RT: 1.70 min Scan# 345
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

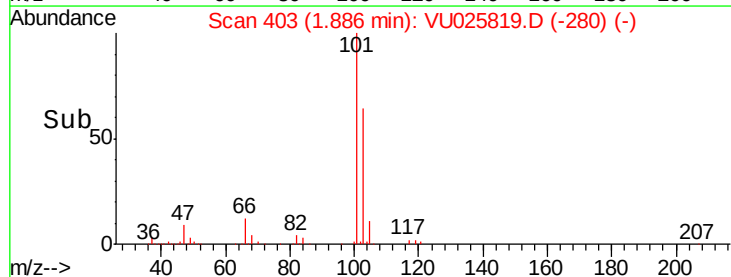
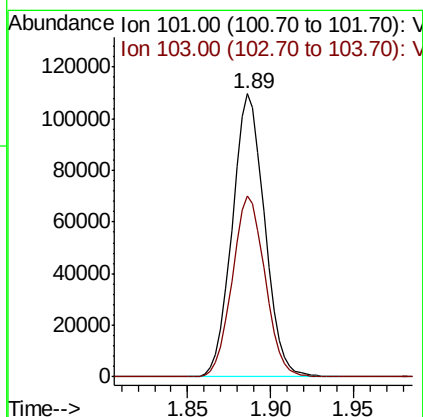
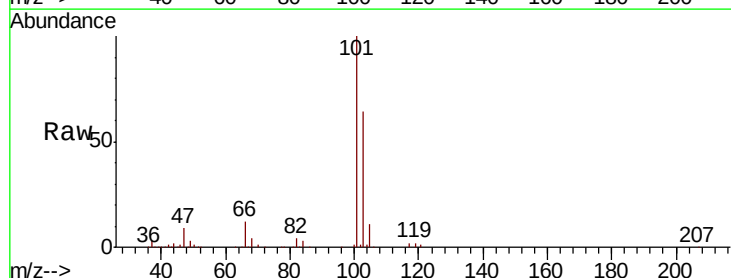
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

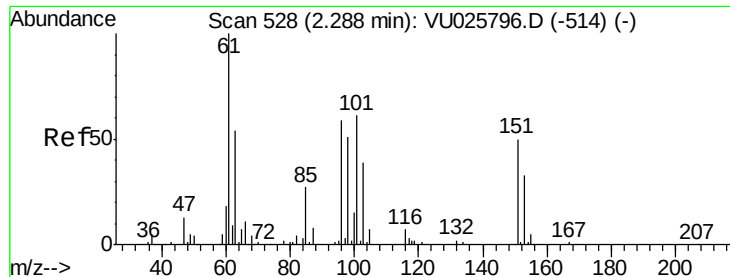
Tgt Ion: 64 Resp: 59461
 Ion Ratio Lower Upper
 64 100
 66 34.4 23.5 43.7



#9
 Trichlorofluoromethane
 Concen: 47.010 ug/L
 RT: 1.89 min Scan# 403
 Delta R.T. -0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

Tgt Ion: 101 Resp: 148858
 Ion Ratio Lower Upper
 101 100
 103 64.8 52.0 78.0





#10

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

Concen: 47.878 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

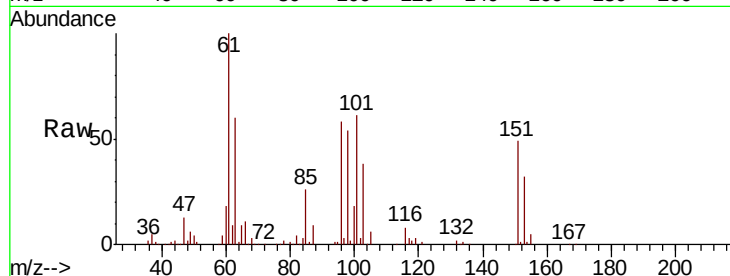
Tgt Ion: 101 Resp: 84899

Ion Ratio Lower Upper

101 100

85 43.7 35.5 53.3

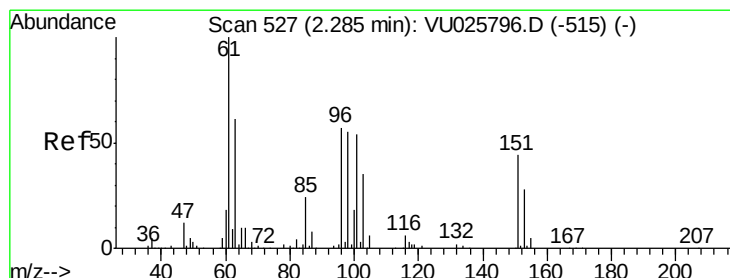
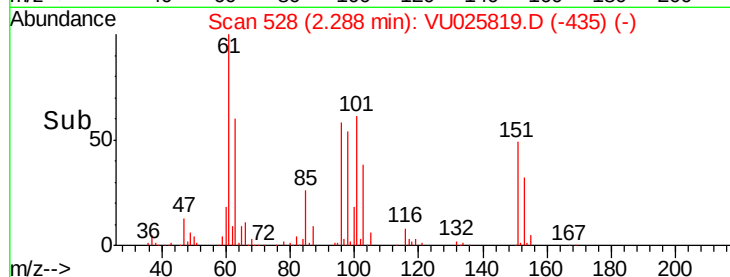
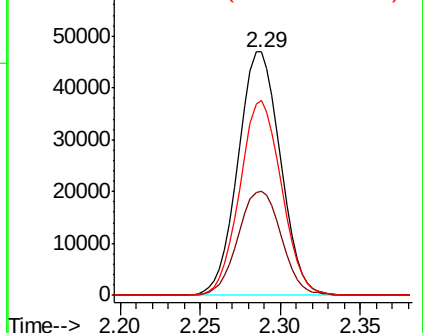
151 78.9 63.5 95.3



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: 45.380 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

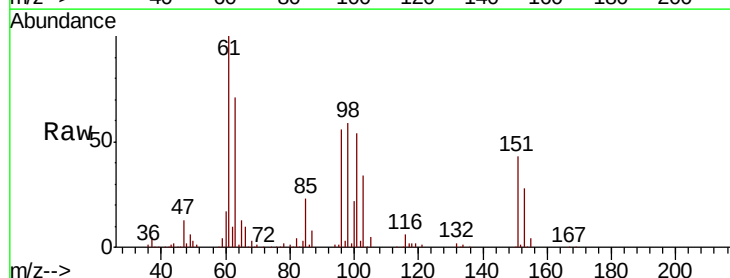
Tgt Ion: 96 Resp: 72968

Ion Ratio Lower Upper

96 100

61 178.3 122.5 227.5

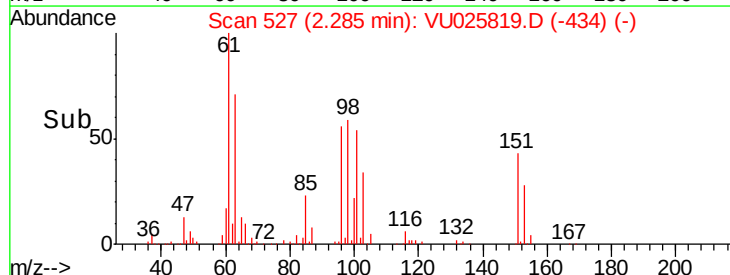
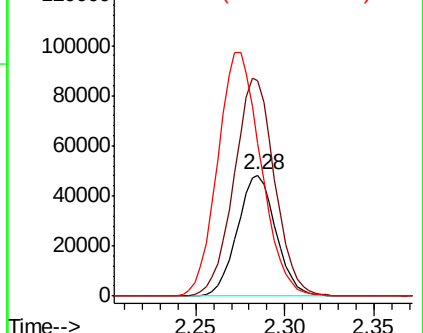
63 125.9 90.9 168.9

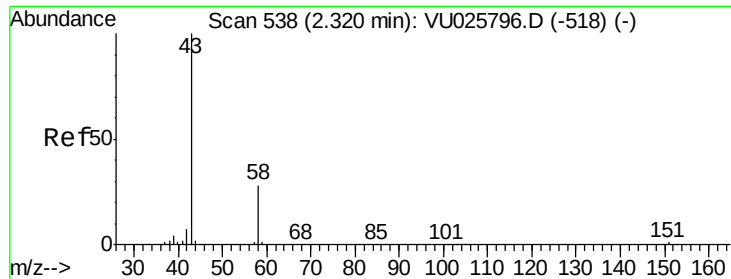


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 90.832 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

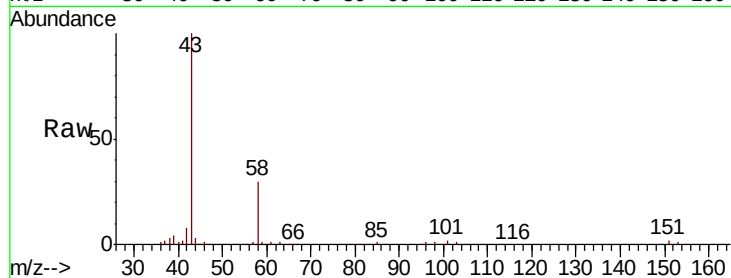
VSTD05050

Tgt Ion: 43 Resp: 133880

Ion Ratio Lower Upper

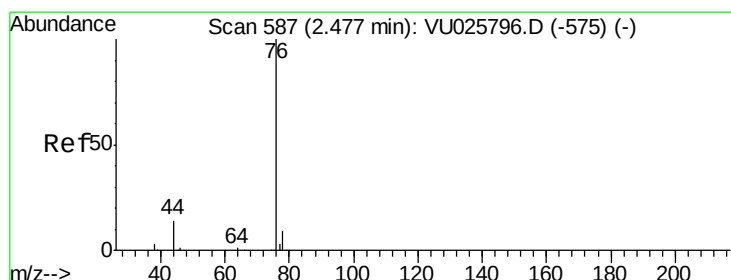
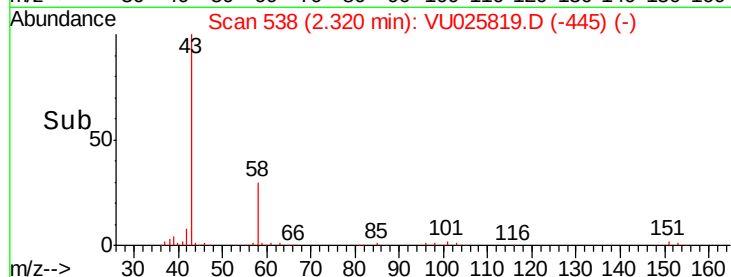
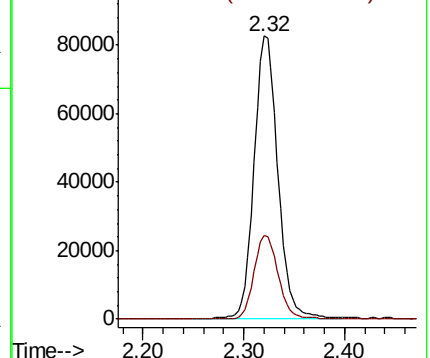
43 100

58 30.2 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU025796.D (-518) (-)

Ion 58.00 (57.70 to 58.70): VU025796.D (-518) (-)



#14

Carbon disulfide

Concen: 44.814 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU025819.D

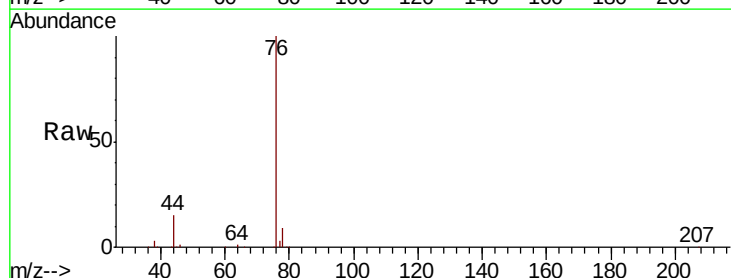
Acq: 03 Aug 2018 15:28

Tgt Ion: 76 Resp: 234636

Ion Ratio Lower Upper

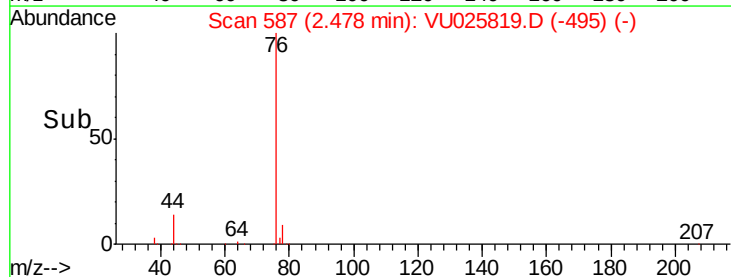
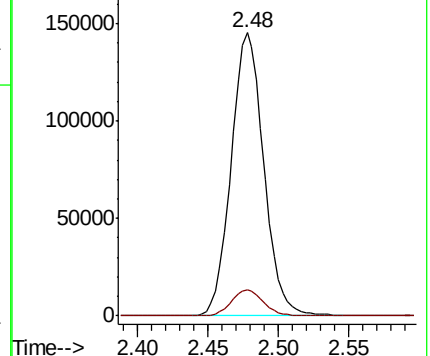
76 100

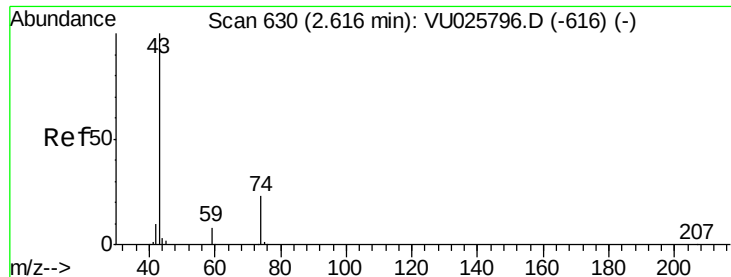
78 9.4 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU025796.D (-575) (-)

Ion 78.00 (77.70 to 78.70): VU025796.D (-575) (-)

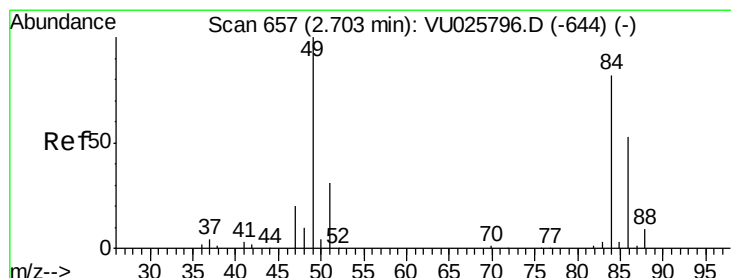
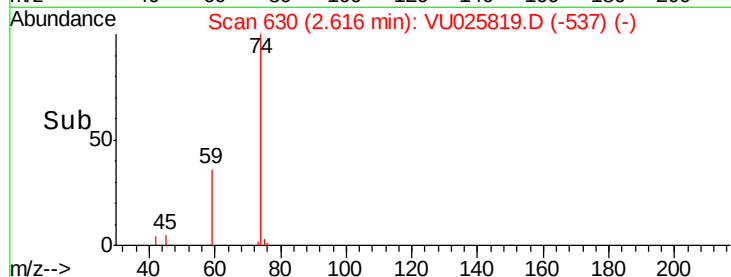
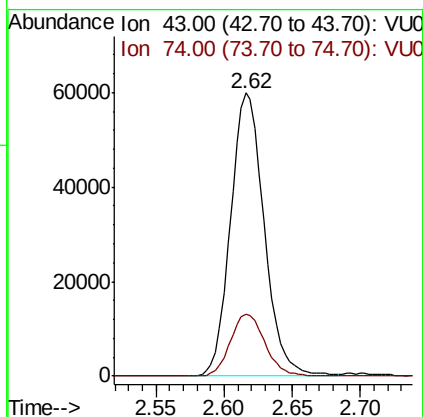
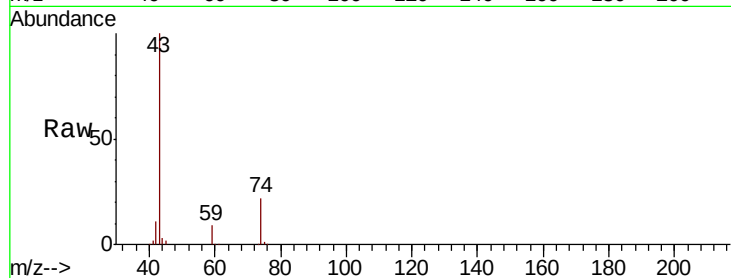




#15
Methyl Acetate
Concen: 50.355 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025819.D
Acq: 03 Aug 2018 15:28

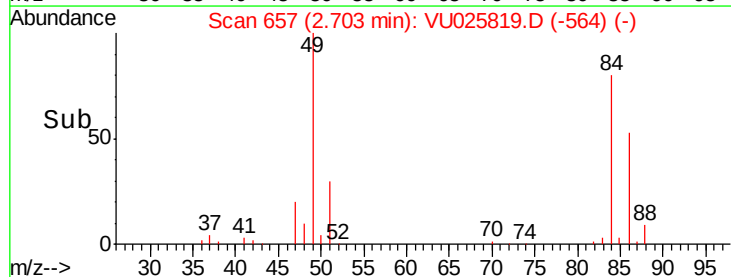
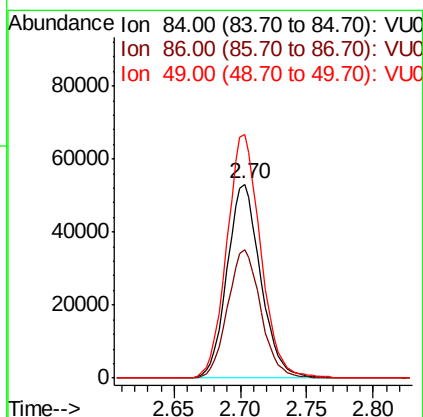
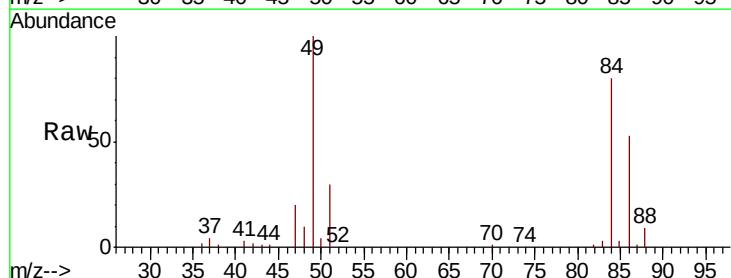
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

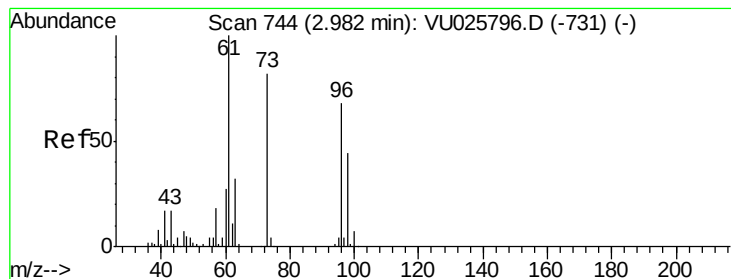
Tgt Ion: 43 Resp: 102598
Ion Ratio Lower Upper
43 100
74 22.6 18.3 27.5



#16
Methylene chloride
Concen: 46.696 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025819.D
Acq: 03 Aug 2018 15:28

Tgt Ion: 84 Resp: 93531
Ion Ratio Lower Upper
84 100
86 65.9 45.6 84.6
49 125.5 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 46.958 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

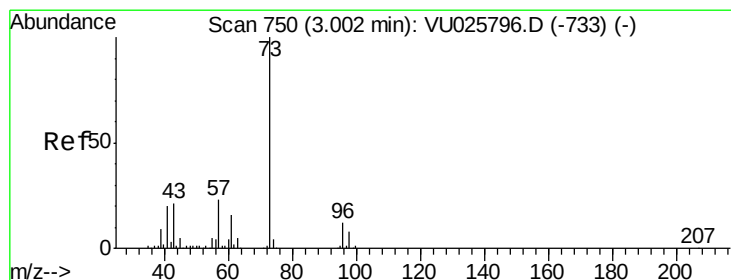
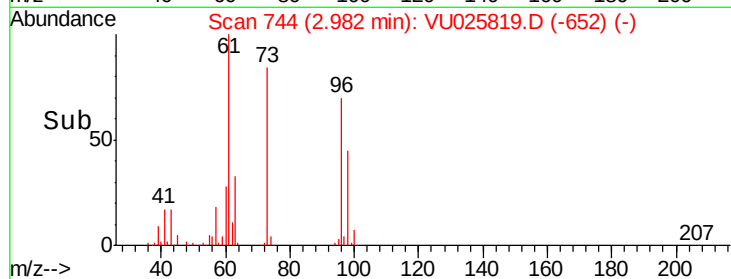
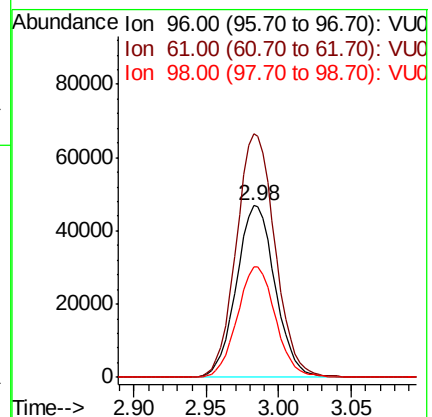
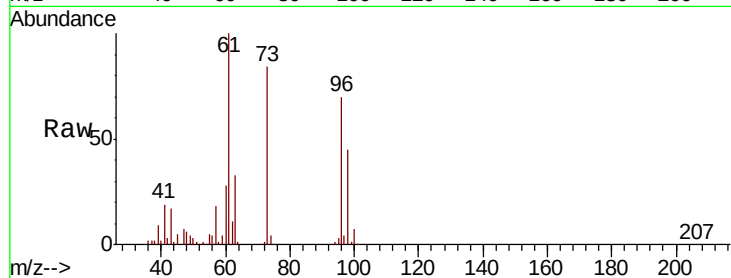
Tgt Ion: 96 Resp: 86934

Ion Ratio Lower Upper

96 100

61 142.1 100.0 185.8

98 64.3 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 47.967 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

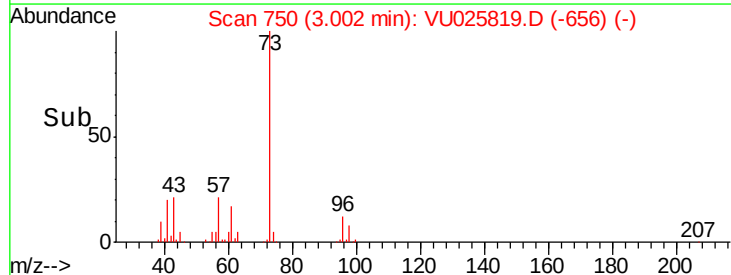
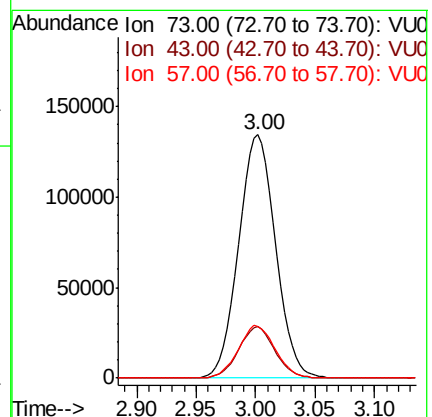
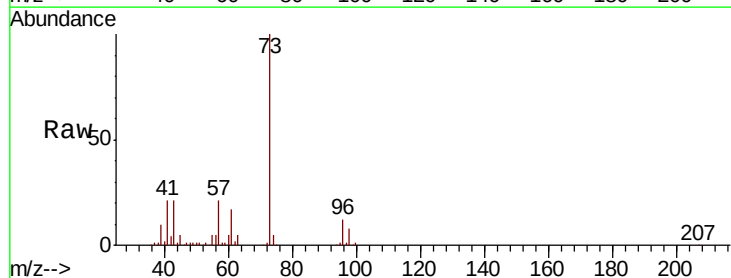
Tgt Ion: 73 Resp: 289208

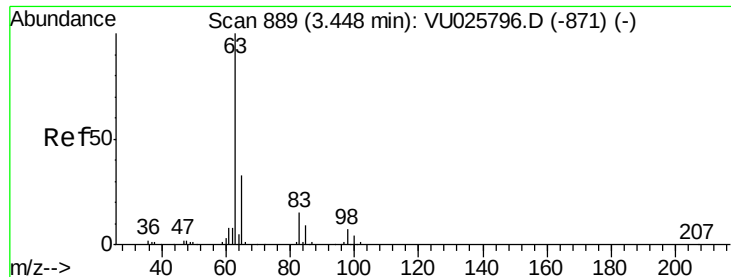
Ion Ratio Lower Upper

73 100

43 20.8 16.2 24.2

57 21.7 17.1 25.7





#19

1,1-Dichloroethane

Concen: 48.229 ug/L

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

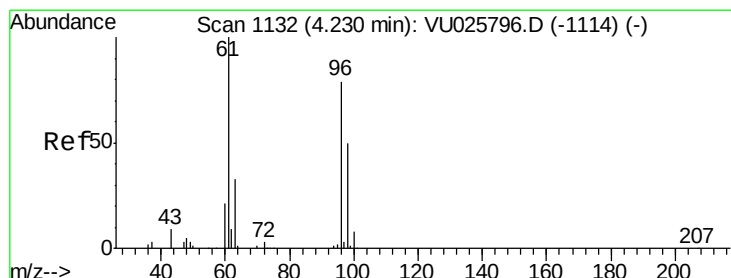
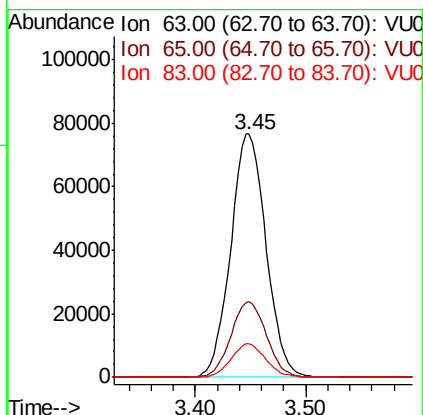
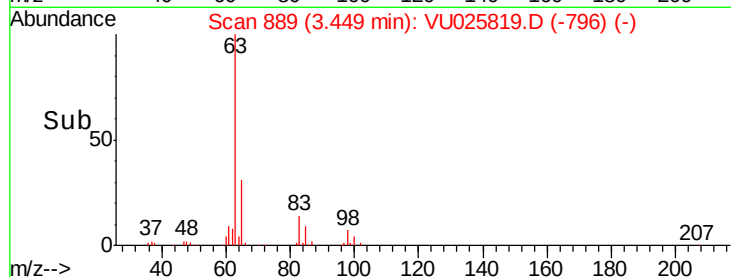
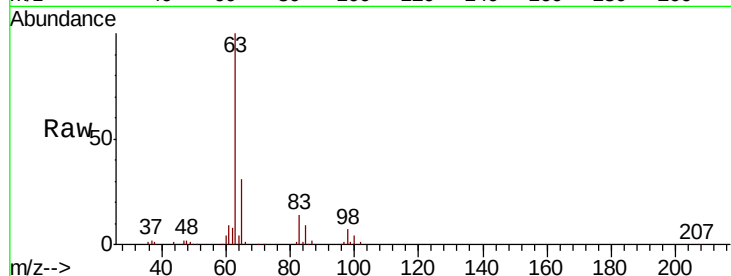
Tgt Ion: 63 Resp: 169845

Ion Ratio Lower Upper

63 100

65 31.3 22.0 41.0

83 14.1 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 47.884 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

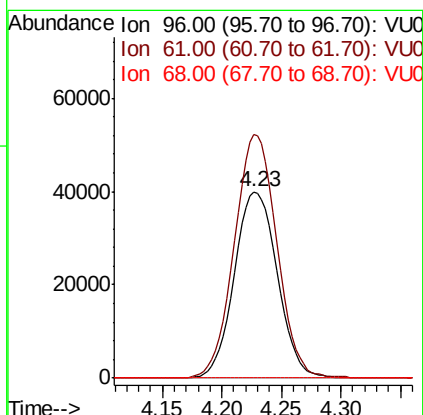
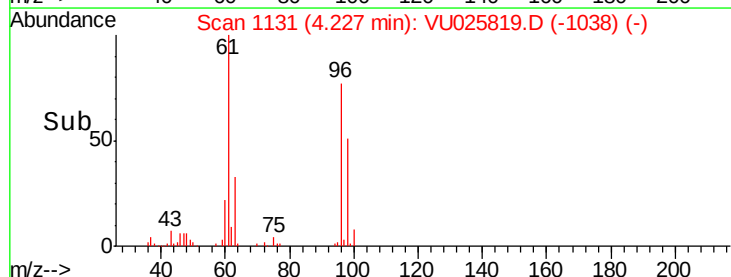
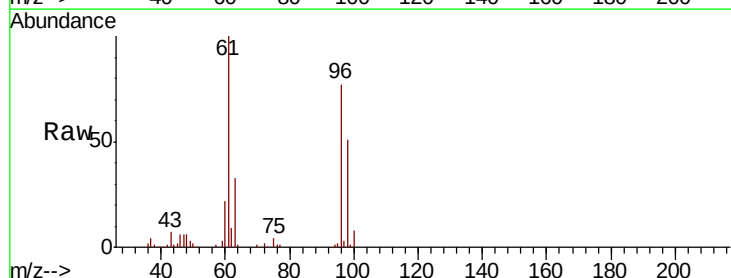
Tgt Ion: 96 Resp: 100064

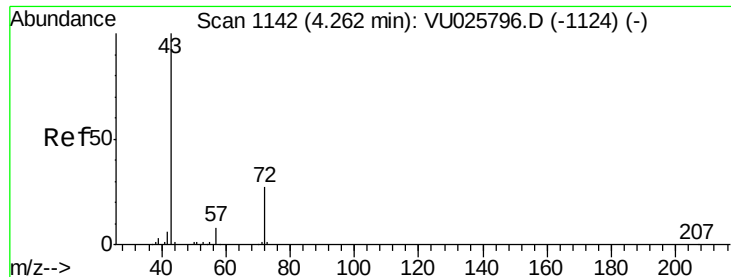
Ion Ratio Lower Upper

96 100

61 130.7 87.4 162.2

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 92.922 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

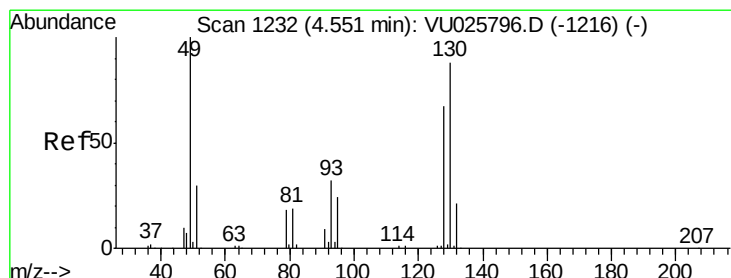
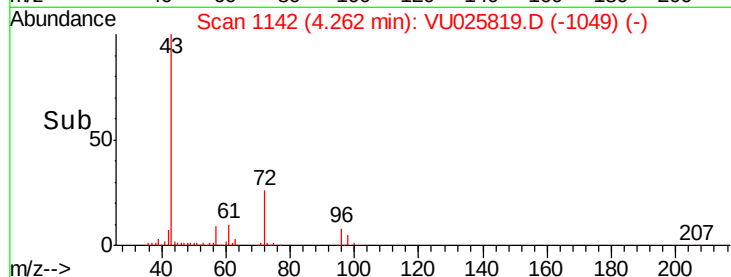
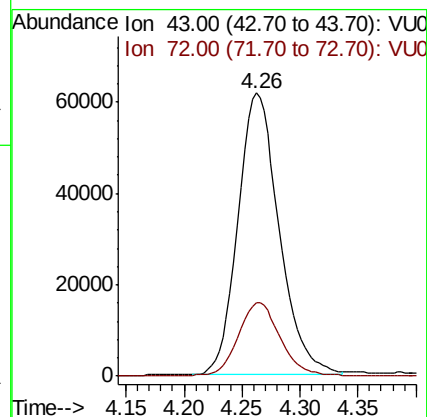
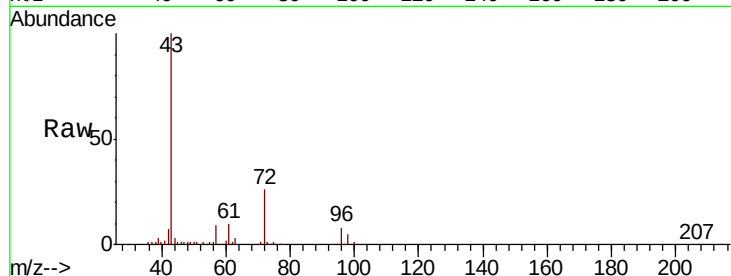
VSTD05050

Tgt Ion: 43 Resp: 152472

Ion Ratio Lower Upper

43 100

72 26.6 13.6 40.8



#23

Bromochloromethane

Concen: 47.805 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Tgt Ion: 128 Resp: 52728

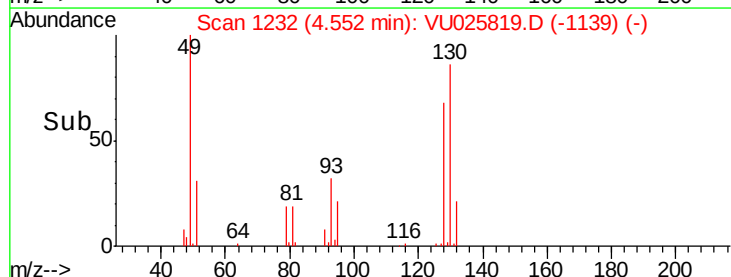
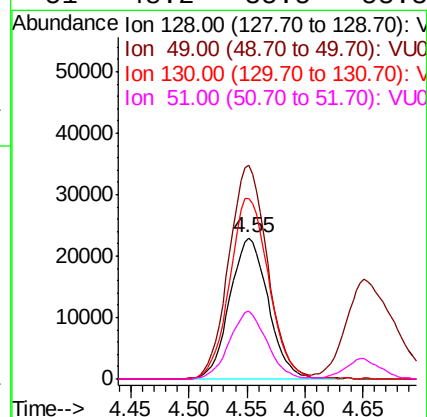
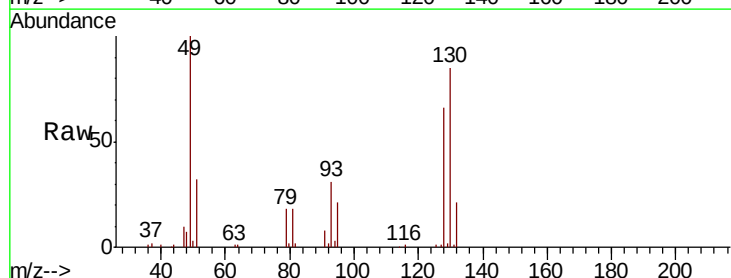
Ion Ratio Lower Upper

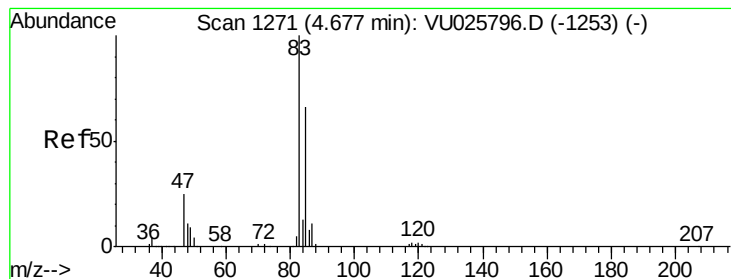
128 100

49 151.1 103.3 191.8

130 127.8 90.4 167.8

51 48.2 35.5 53.3





#25

Chloroform

Concen: 47.898 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

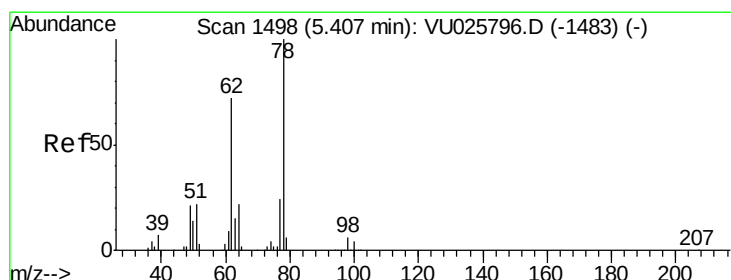
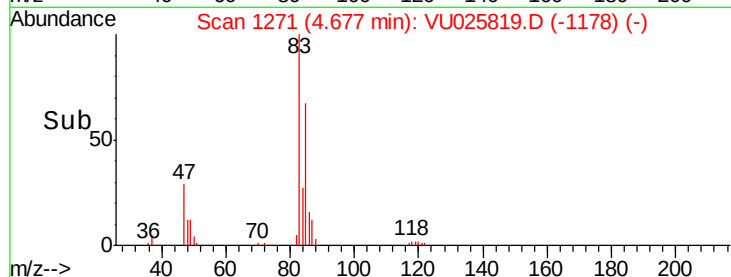
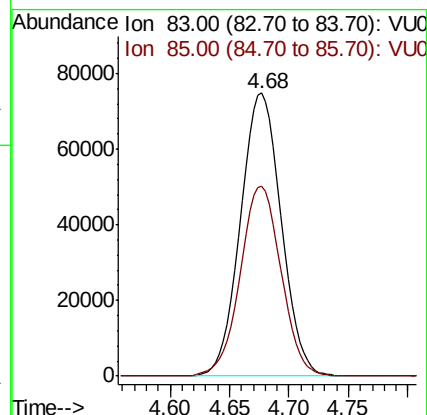
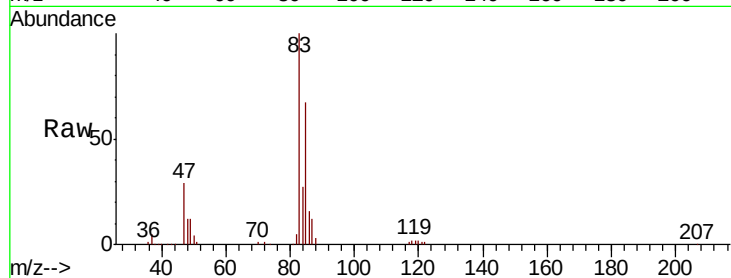
VSTD05050

Tgt Ion: 83 Resp: 177496

Ion Ratio Lower Upper

83 100

85 67.2 45.0 83.6



#27

1,2-Dichloroethane

Concen: 49.409 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. 0.00 min

Lab File: VU025819.D

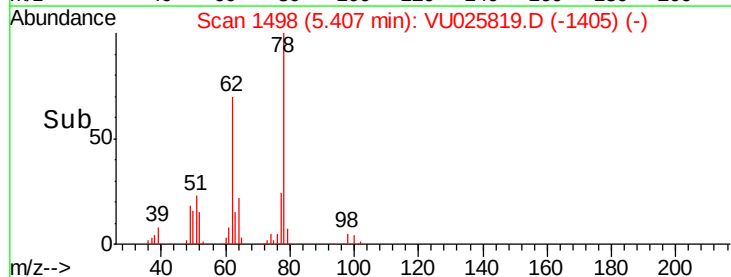
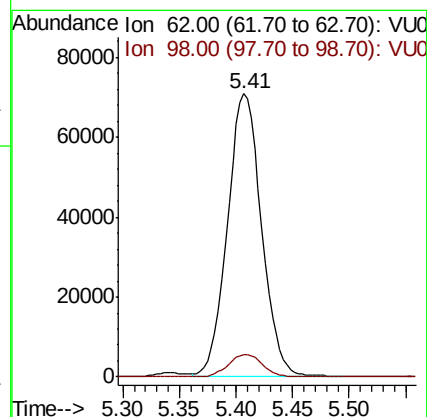
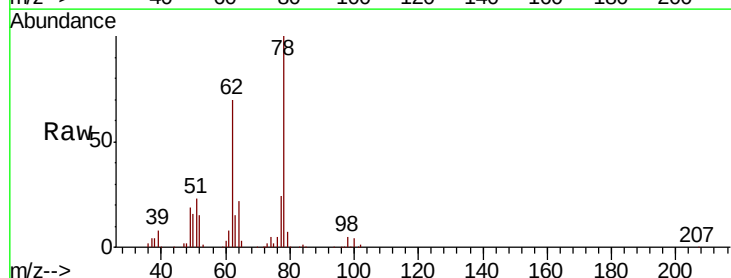
Acq: 03 Aug 2018 15:28

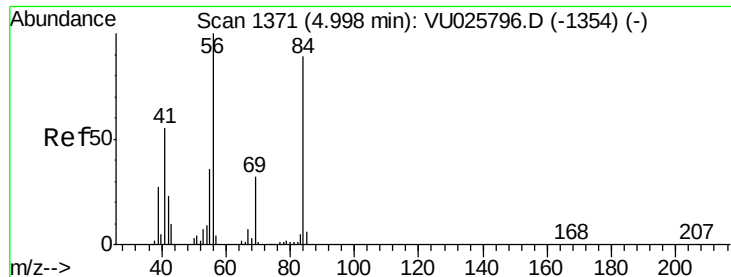
Tgt Ion: 62 Resp: 149344

Ion Ratio Lower Upper

62 100

98 7.7 6.5 9.7

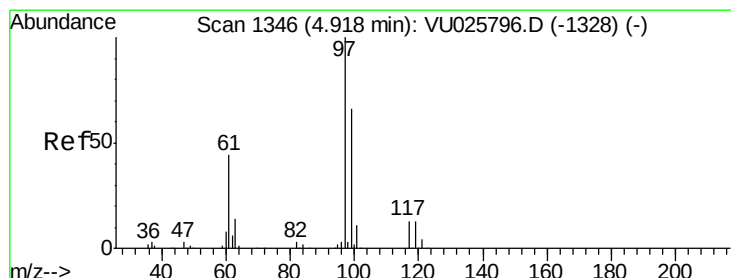
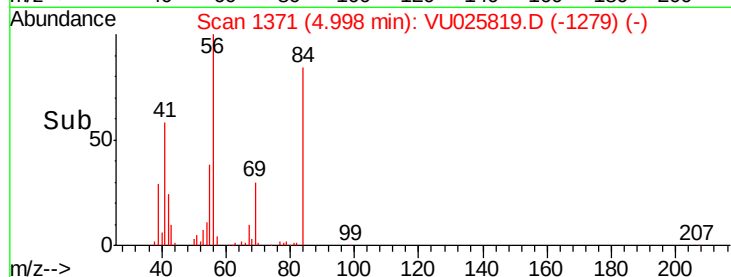
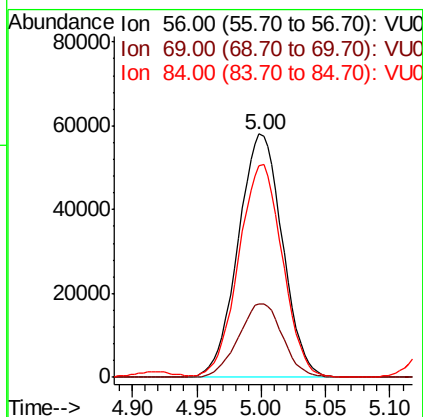
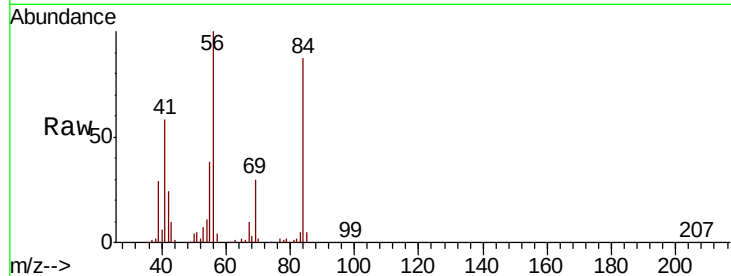




#29
Cyclohexane
Concen: 43.367 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU025819.D
Acq: 03 Aug 2018 15:28

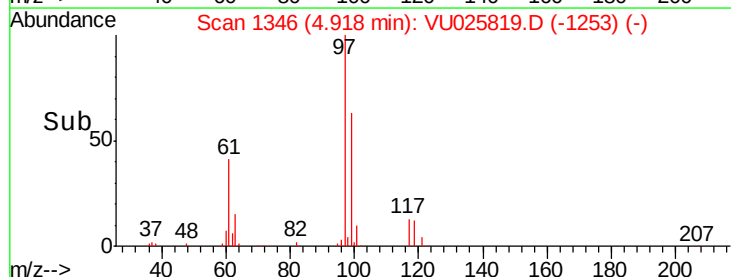
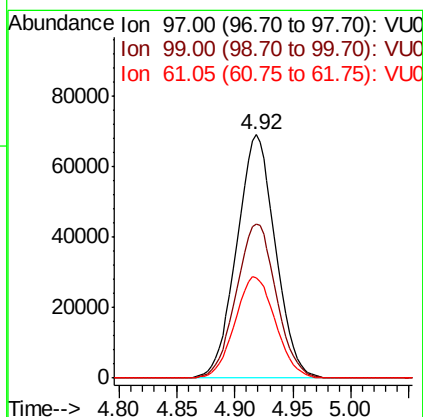
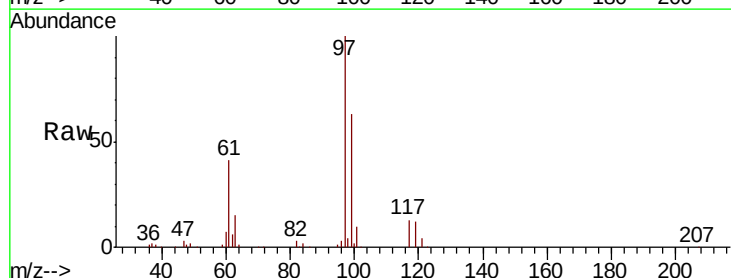
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

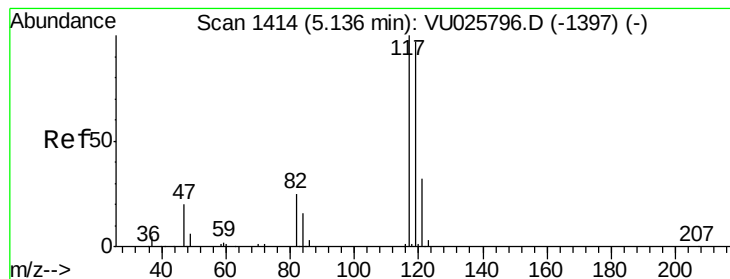
Tgt Ion: 56 Resp: 138952
Ion Ratio Lower Upper
56 100
69 30.2 24.8 37.2
84 86.6 70.6 106.0



#30
1,1,1-Trichloroethane
Concen: 46.348 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU025819.D
Acq: 03 Aug 2018 15:28

Tgt Ion: 97 Resp: 160399
Ion Ratio Lower Upper
97 100
99 65.6 52.4 78.6
61 43.7 34.6 52.0





#31

Carbon tetrachloride

Concen: 45.892 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

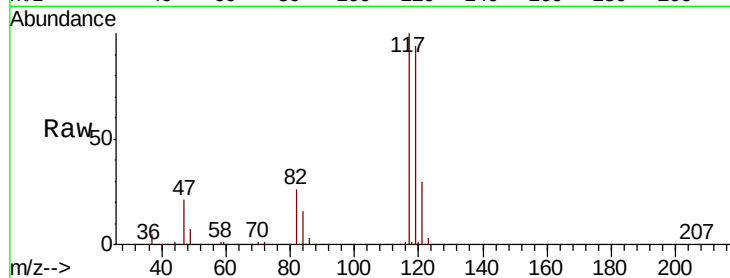
VSTD05050

Tgt Ion:117 Resp: 146858

Ion Ratio Lower Upper

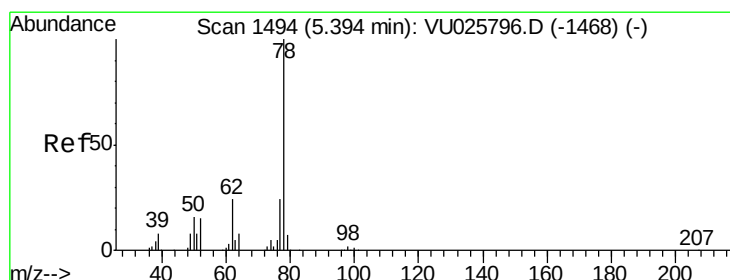
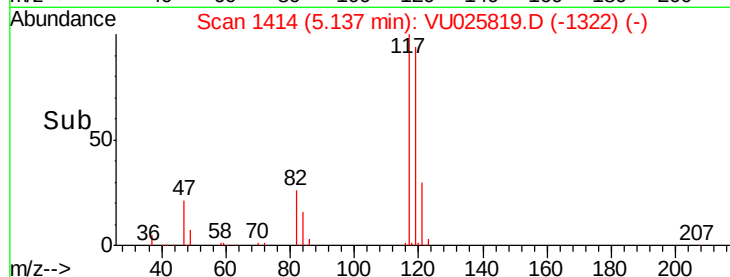
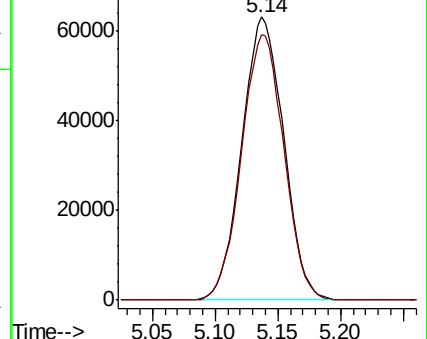
117 100

119 94.9 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: 45.834 ug/L

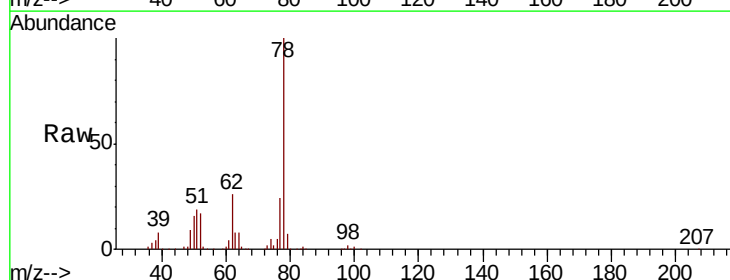
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

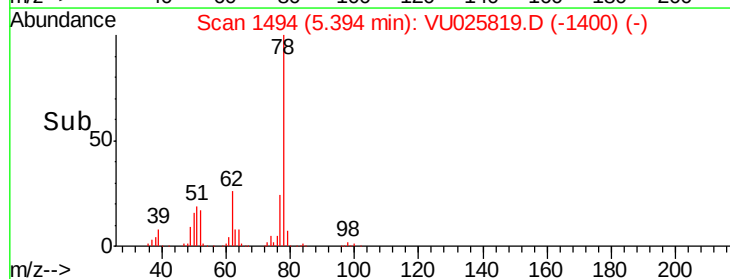
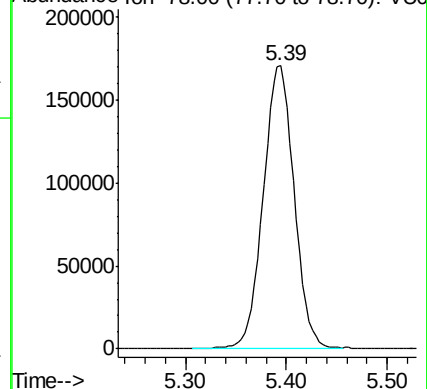
Lab File: VU025819.D

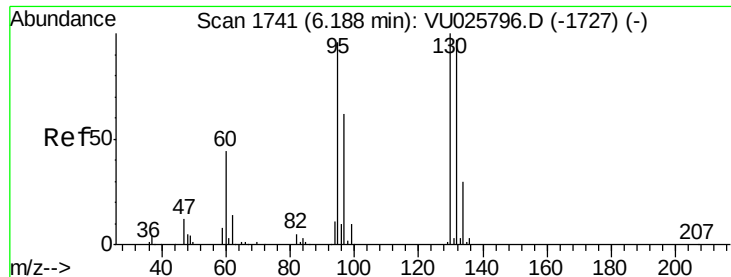
Acq: 03 Aug 2018 15:28

Tgt Ion: 78 Resp: 364218



Abundance Ion 78.00 (77.70 to 78.70): VU0

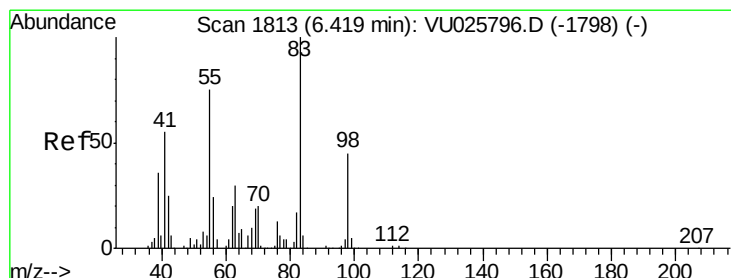
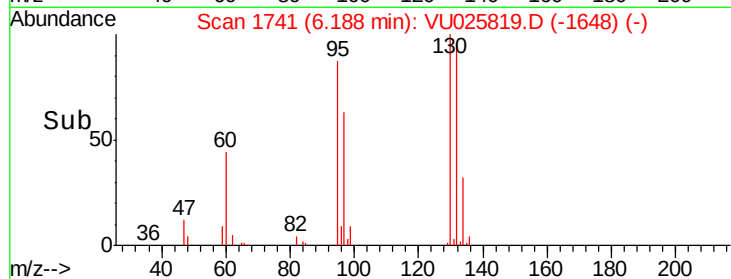
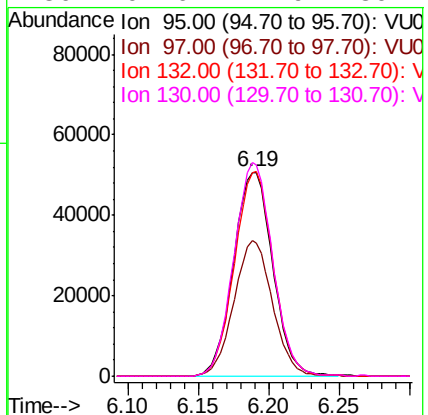
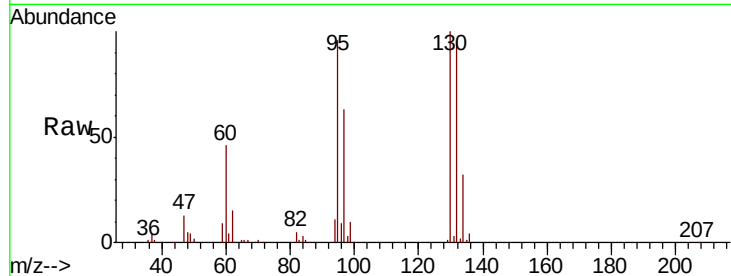




#34
 Trichloroethene
 Concen: 47.046 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

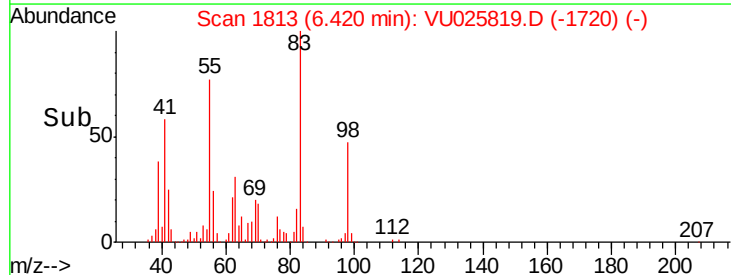
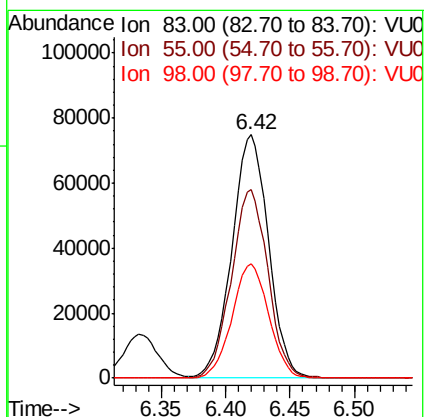
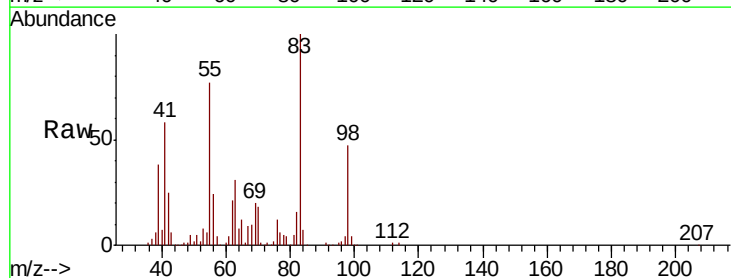
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

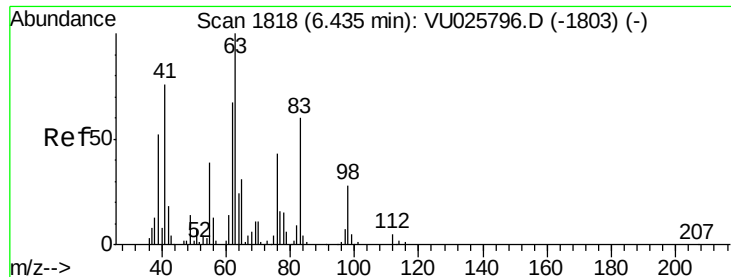
Tgt Ion:	95	Resp:	99194
Ion	Ratio	Lower	Upper
95	100		
97	66.4	45.9	85.3
132	99.8	72.2	134.2
130	104.6	74.9	139.1



#35
 Methylcyclohexane
 Concen: 43.376 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

Tgt Ion:	83	Resp:	147466
Ion	Ratio	Lower	Upper
83	100		
55	77.5	61.1	91.7
98	47.1	38.6	57.8

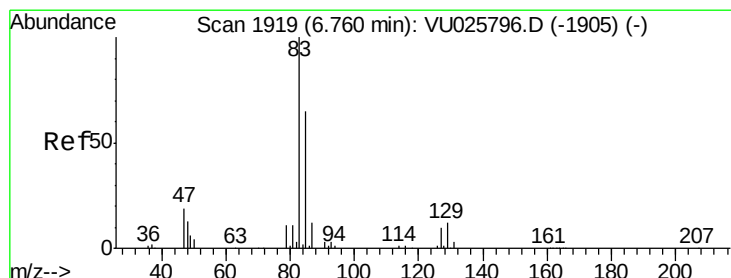
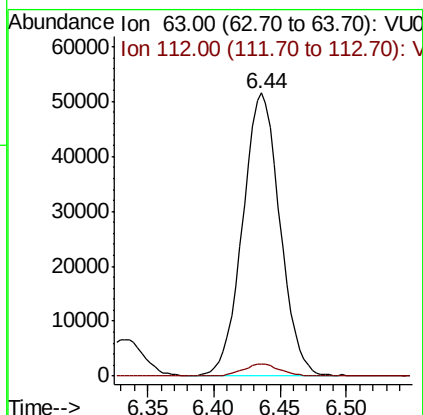
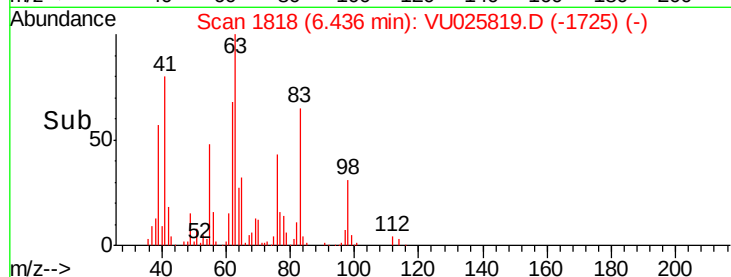
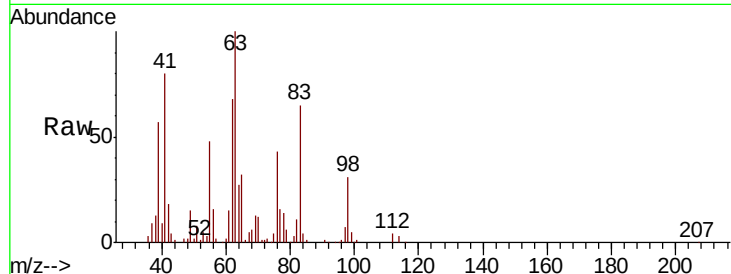




#37
 1,2-Dichloropropane
 Concen: 46.442 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

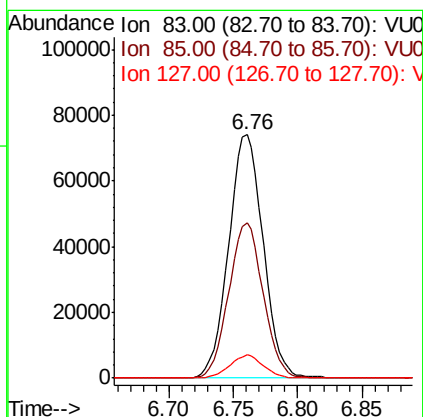
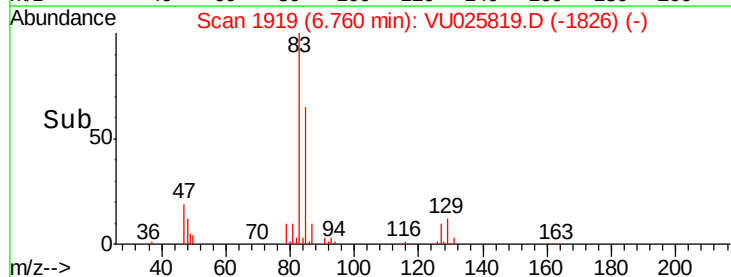
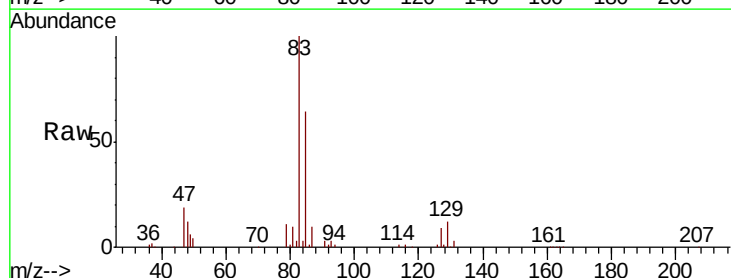
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

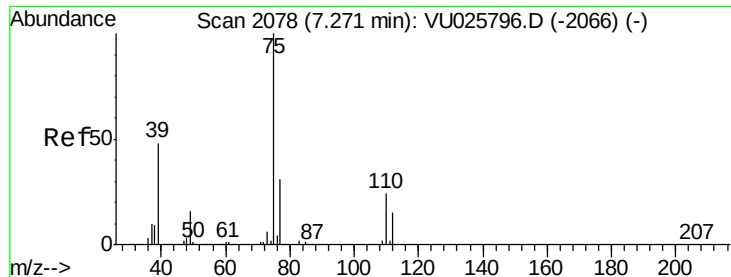
Tgt Ion: 63 Resp: 100849
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.3 4.9



#38
 Bromodichloromethane
 Concen: 48.212 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

Tgt Ion: 83 Resp: 138034
 Ion Ratio Lower Upper
 83 100
 85 63.9 46.7 86.7
 127 9.4 8.0 12.0

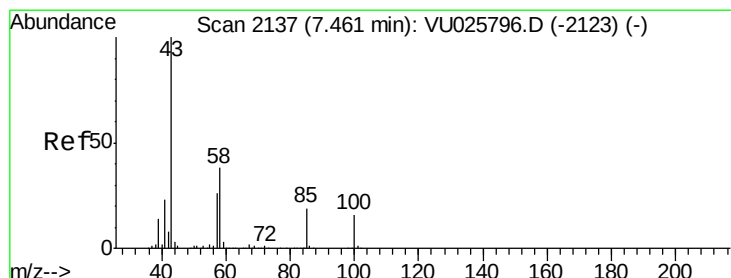
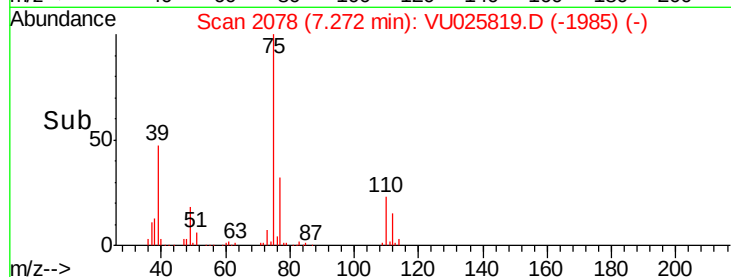
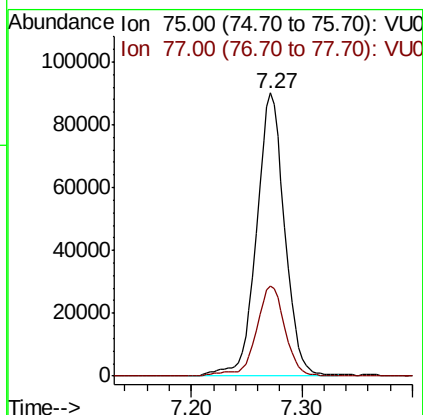
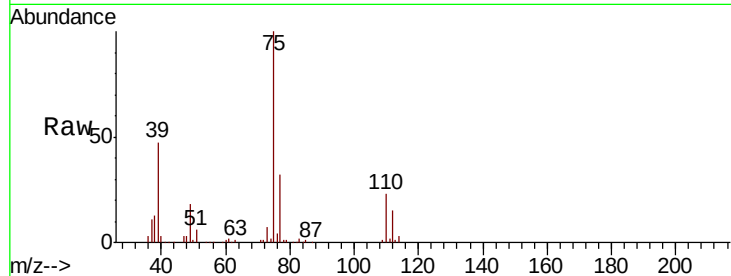




#39
 cis-1,3-Dichloropropene
 Concen: 47.250 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

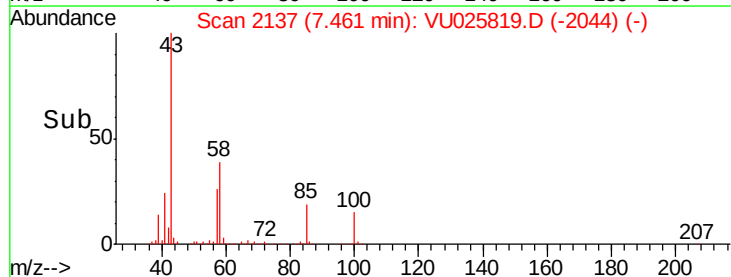
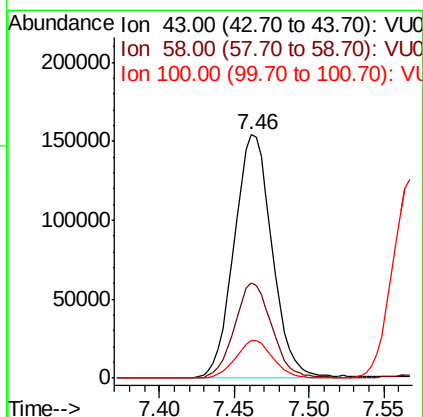
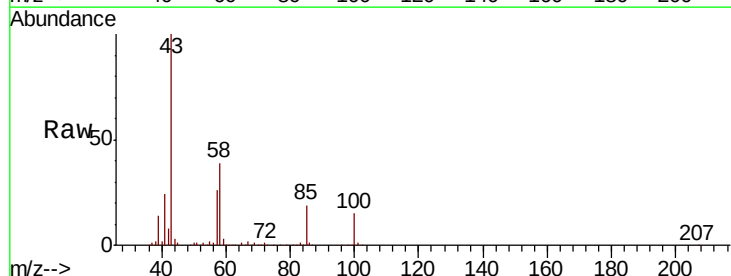
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

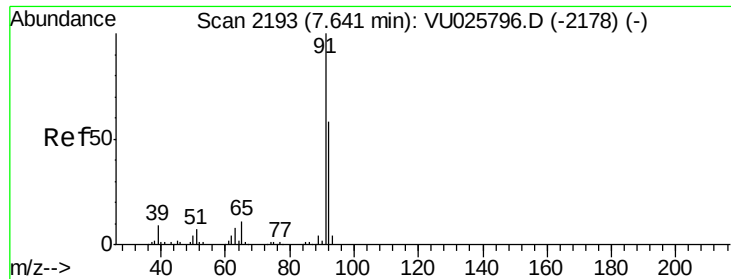
Tgt Ion: 75 Resp: 159231
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 95.661 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

Tgt Ion: 43 Resp: 272792
 Ion Ratio Lower Upper
 43 100
 58 38.6 30.8 46.2
 100 15.2 12.1 18.1





#42

Toluene

Concen: 46.769 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

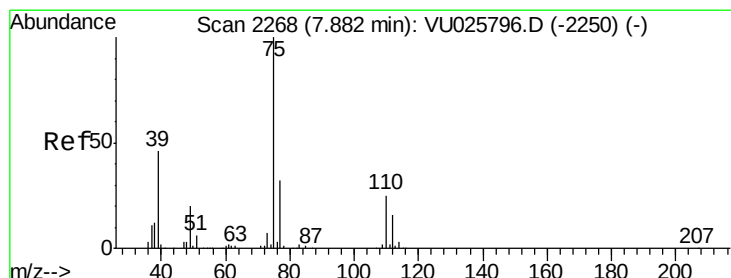
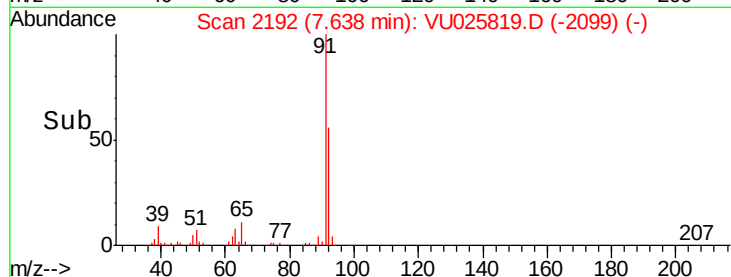
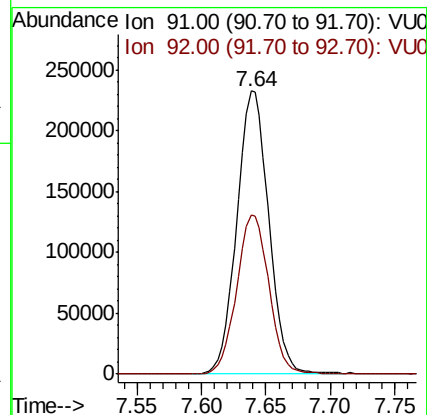
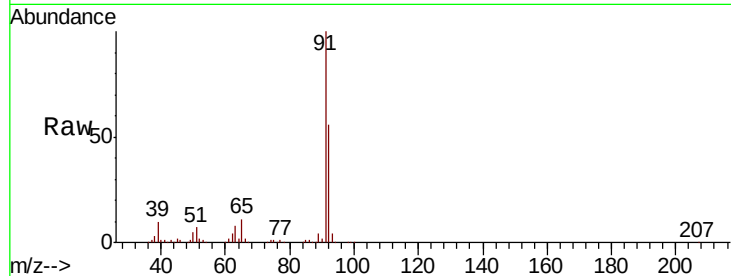
VSTD05050

Tgt Ion: 91 Resp: 400794

Ion Ratio Lower Upper

91 100

92 56.2 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 48.146 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025819.D

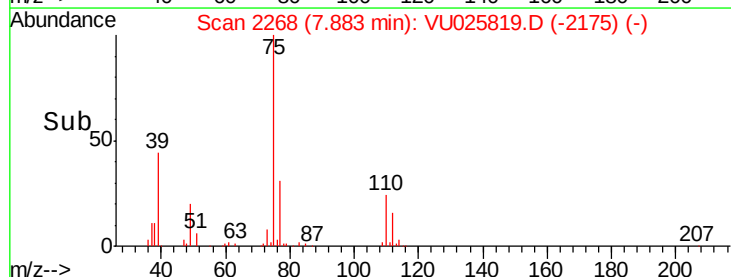
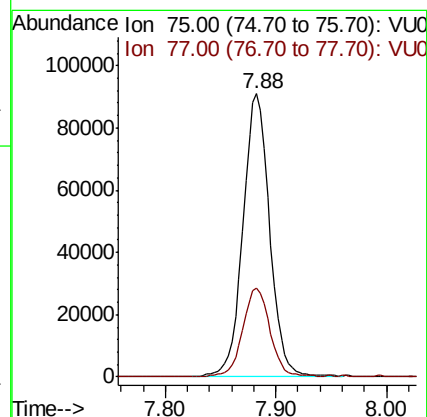
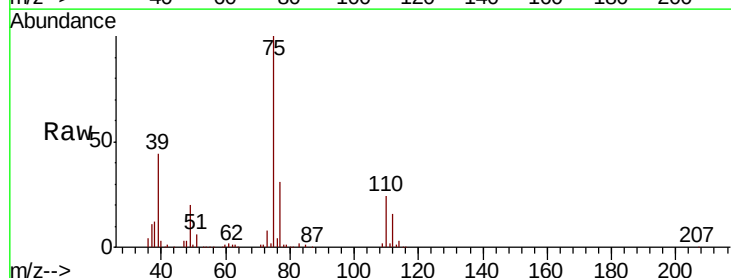
Acq: 03 Aug 2018 15:28

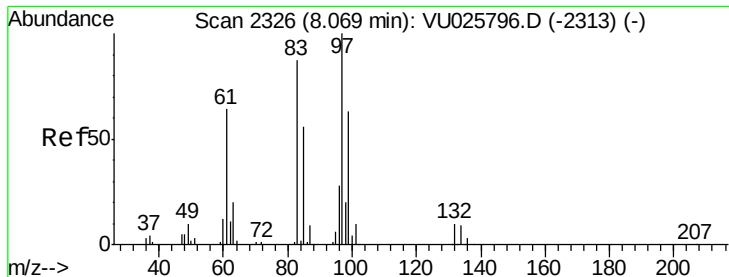
Tgt Ion: 75 Resp: 152979

Ion Ratio Lower Upper

75 100

77 31.4 22.2 41.2

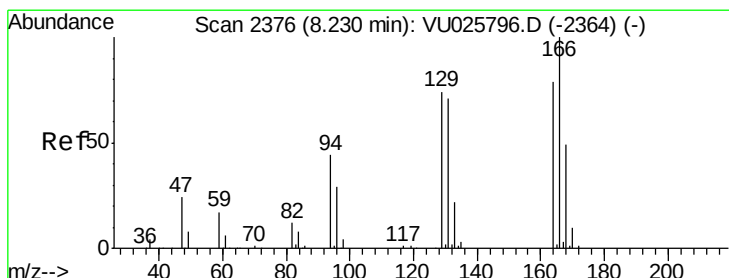
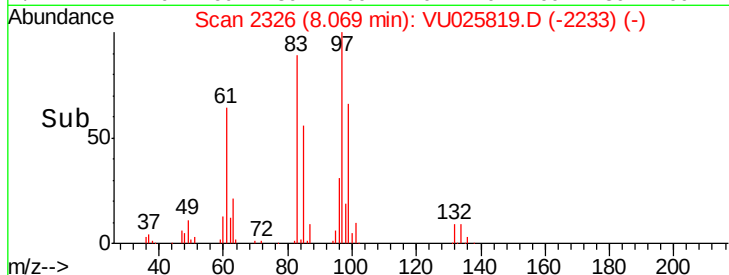
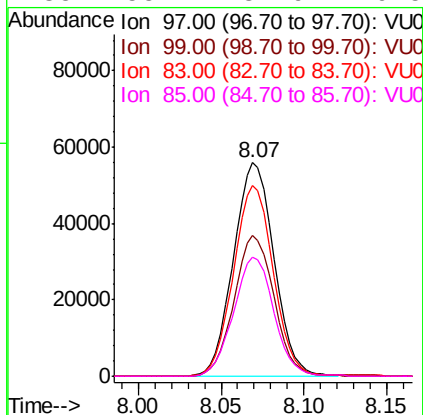
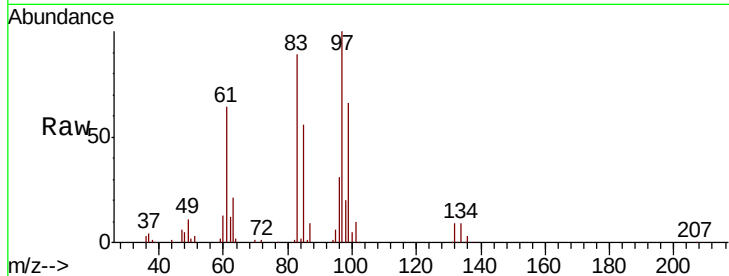




#45
 1,1,2-Trichloroethane
 Concen: 45.848 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

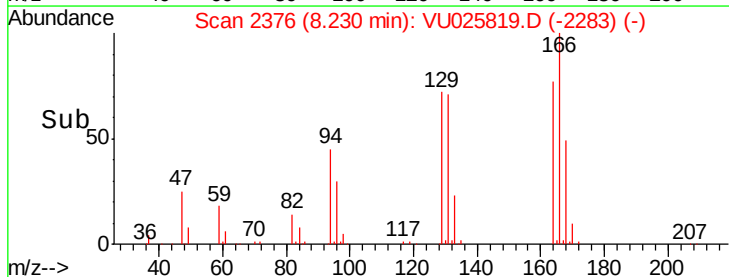
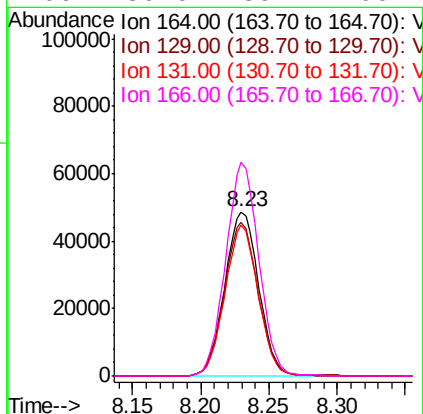
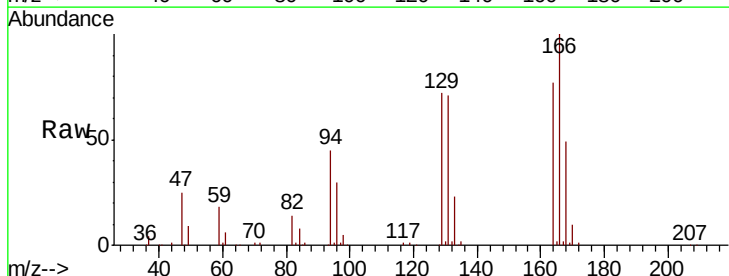
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

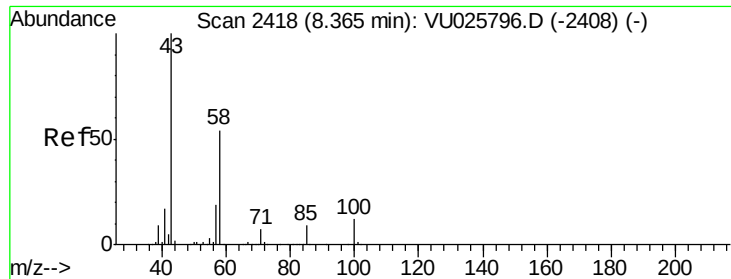
Tgt Ion:	97	Resp:	95498
Ion	Ratio	Lower	Upper
97	100		
99	65.8	44.3	82.3
83	89.5	59.8	111.1
85	55.7	37.9	70.5



#46
 Tetrachloroethene
 Concen: 46.214 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

Tgt Ion:	164	Resp:	84474
Ion	Ratio	Lower	Upper
164	100		
129	93.7	65.1	120.9
131	92.0	62.8	116.6
166	130.0	89.7	166.7

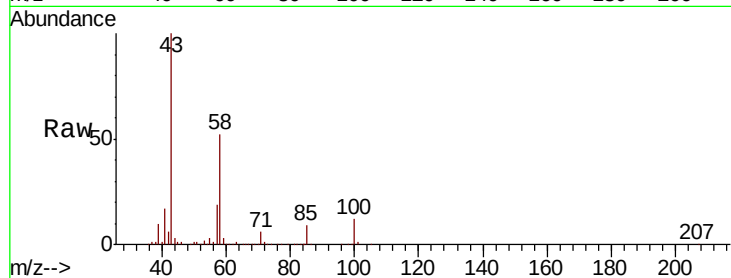




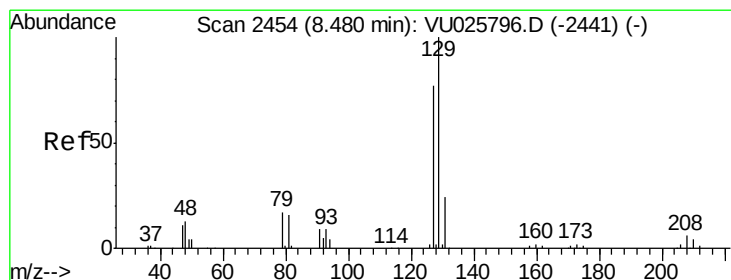
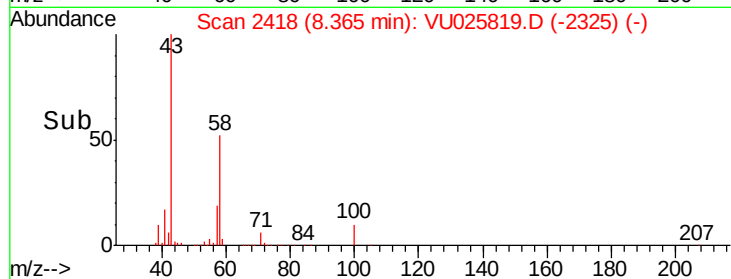
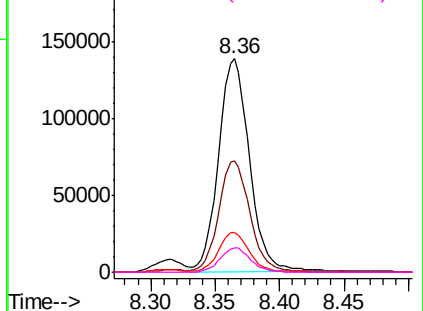
#48
2-Hexanone
Concen: 95.536 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025819.D
Acq: 03 Aug 2018 15:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion:	43	Resp:	230205
Ion	Ratio	Lower	Upper
43	100		
58	53.0	42.9	64.3
57	17.6	15.4	23.2
100	11.4	9.6	14.4

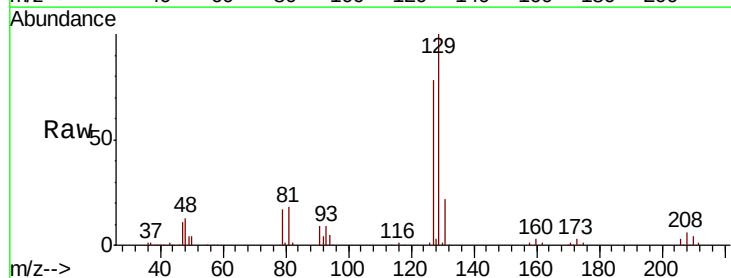


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

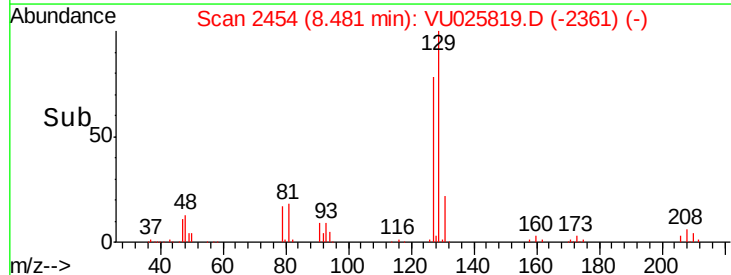
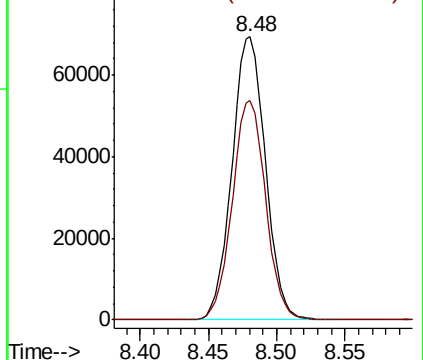


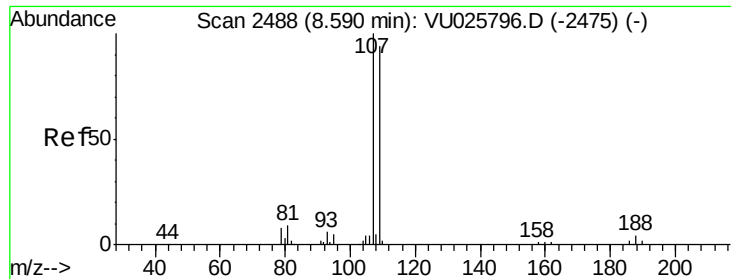
#49
Dibromochloromethane
Concen: 48.371 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025819.D
Acq: 03 Aug 2018 15:28

Tgt Ion:	129	Resp:	118188
Ion	Ratio	Lower	Upper
129	100		
127	77.6	53.8	100.0



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

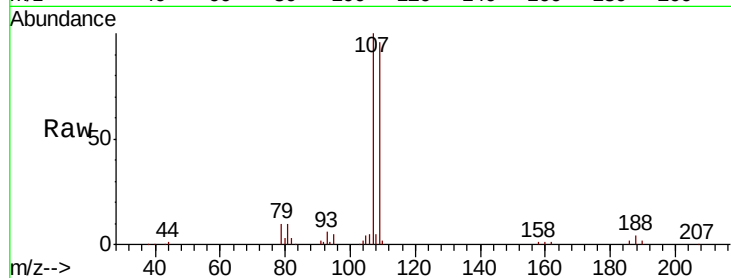




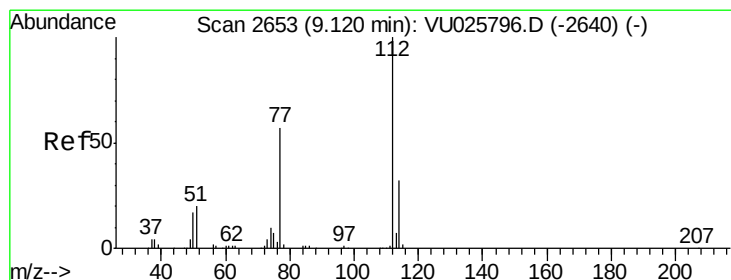
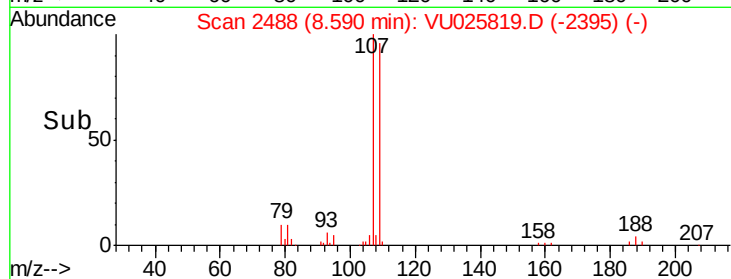
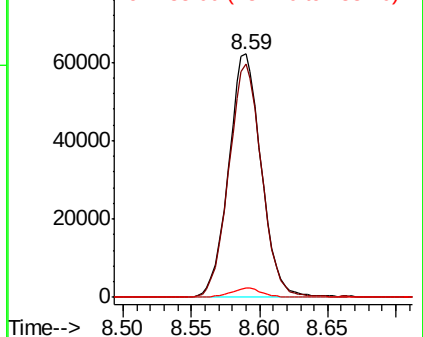
#50
1,2-Dibromoethane
Concen: 46.093 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU025819.D
Acq: 03 Aug 2018 15:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion:107 Resp: 103434
Ion Ratio Lower Upper
107 100
109 95.6 66.6 123.8
188 3.9 3.2 4.8

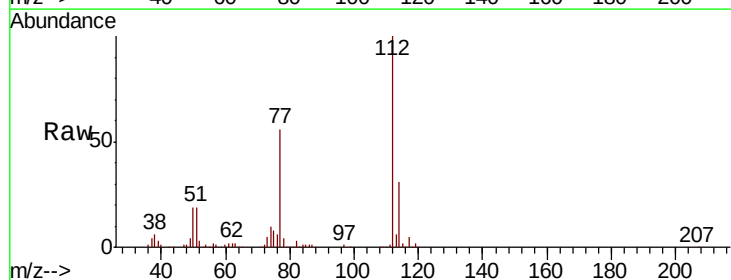


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

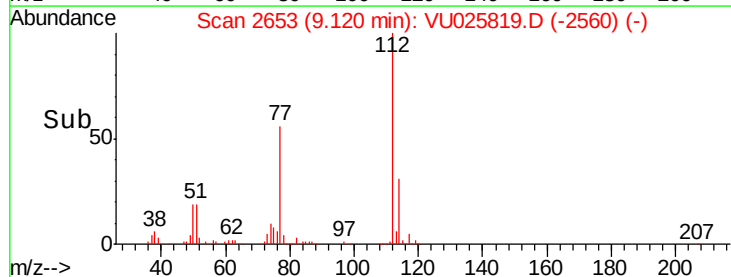
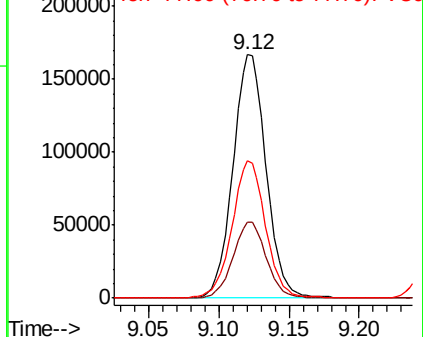


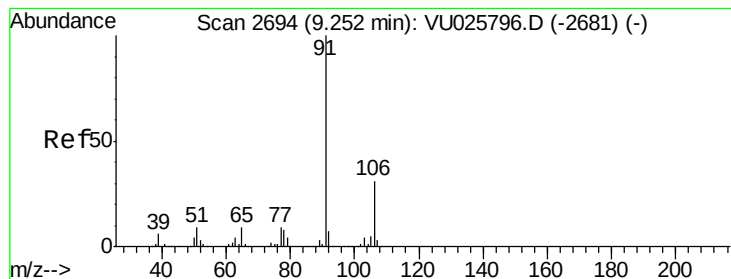
#51
Chlorobenzene
Concen: 47.494 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. 0.00 min
Lab File: VU025819.D
Acq: 03 Aug 2018 15:28

Tgt Ion:112 Resp: 274008
Ion Ratio Lower Upper
112 100
114 31.1 22.5 41.9
77 56.2 45.8 68.8



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





#52

Ethylbenzene

Concen: 47.056 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

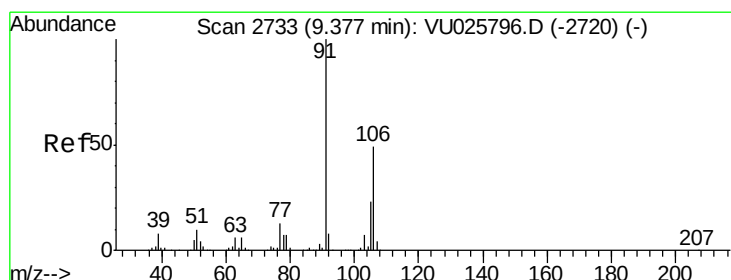
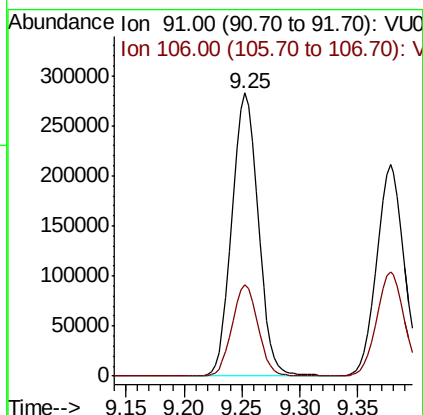
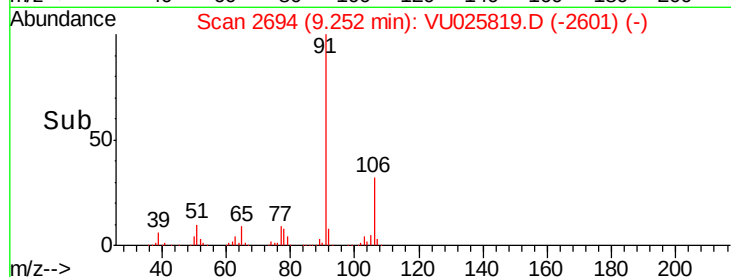
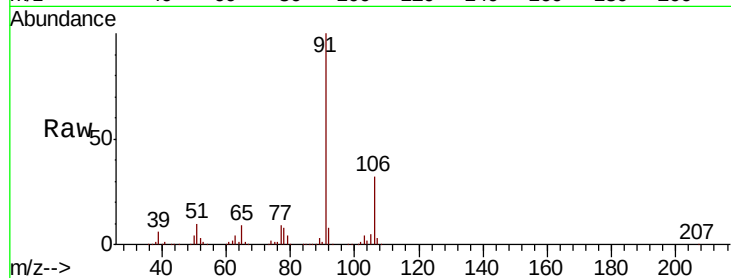
VSTD05050

Tgt Ion: 91 Resp: 445076

Ion Ratio Lower Upper

91 100

106 32.4 22.3 41.5



#53

m,p-Xylene

Concen: 48.487 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025819.D

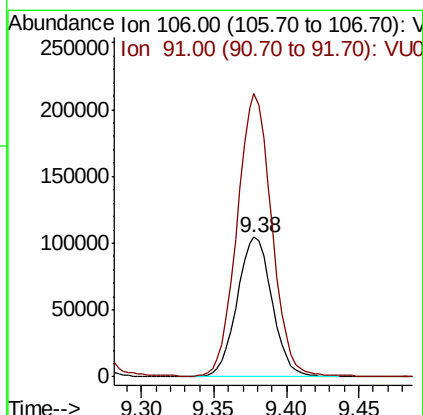
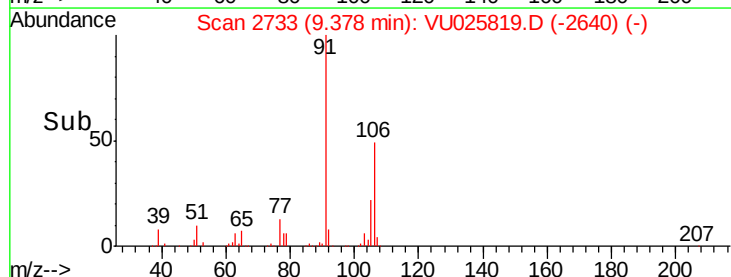
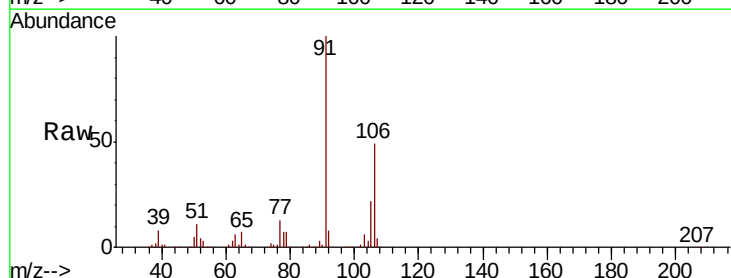
Acq: 03 Aug 2018 15:28

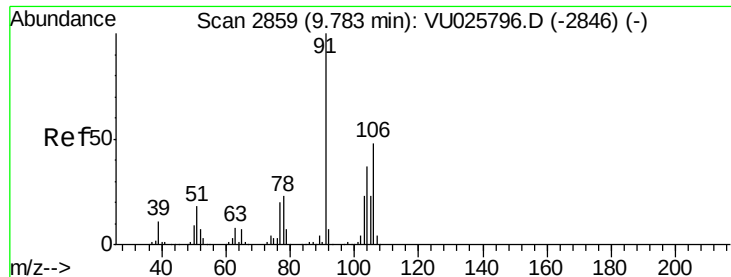
Tgt Ion: 106 Resp: 175666

Ion Ratio Lower Upper

106 100

91 202.9 141.7 263.3





#54

o-xylene

Concen: 46.553 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

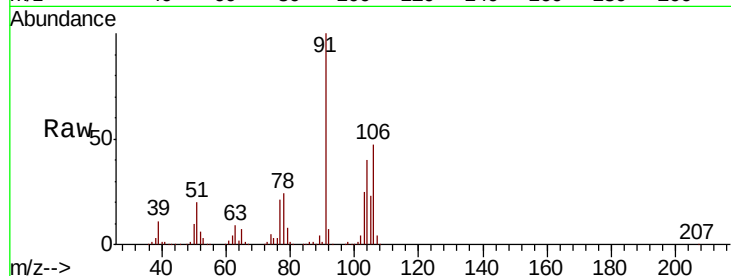
VSTD05050

Tgt Ion:106 Resp: 171137

Ion Ratio Lower Upper

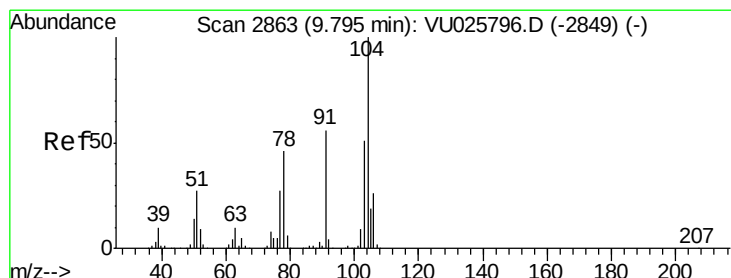
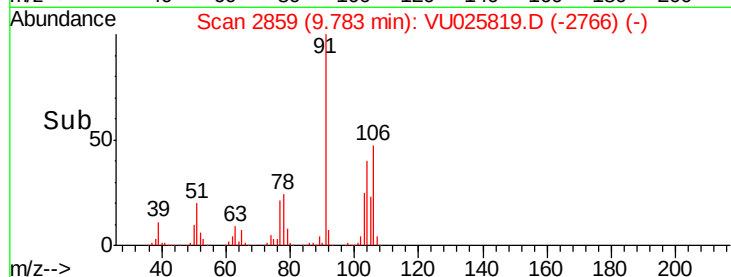
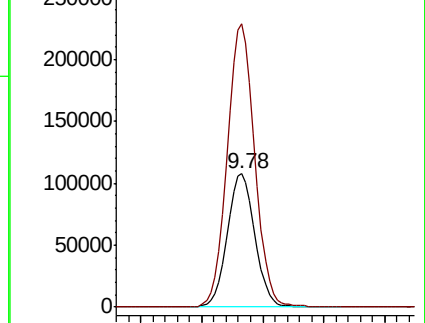
106 100

91 212.0 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.957 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU025819.D

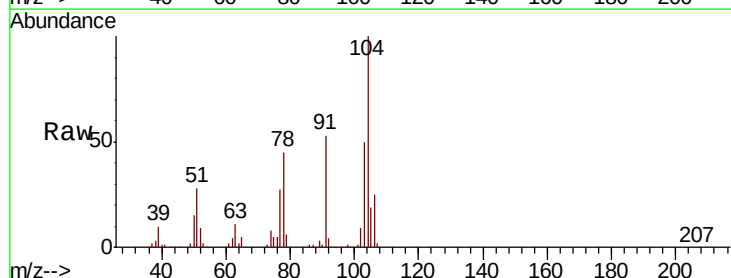
Acq: 03 Aug 2018 15:28

Tgt Ion:104 Resp: 293123

Ion Ratio Lower Upper

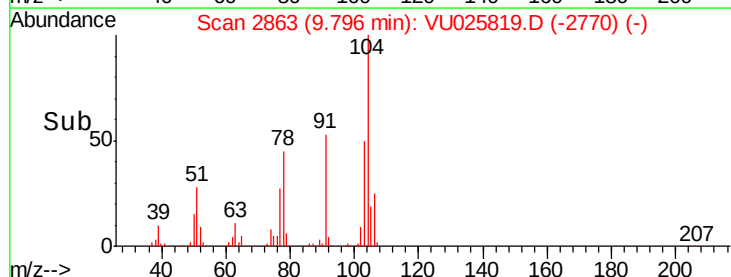
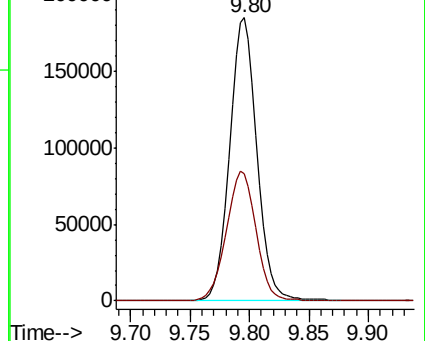
104 100

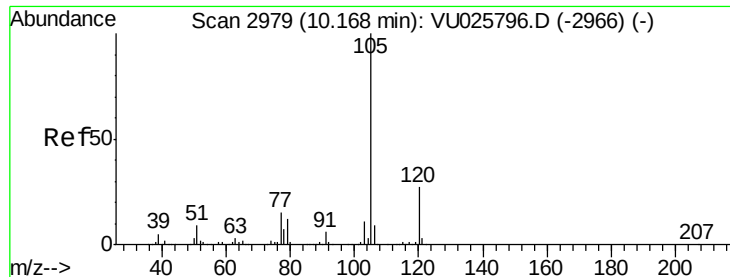
78 44.7 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.399 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

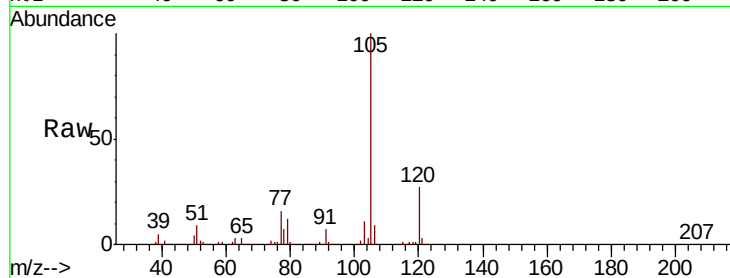
Tgt Ion: 105 Resp: 449684

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

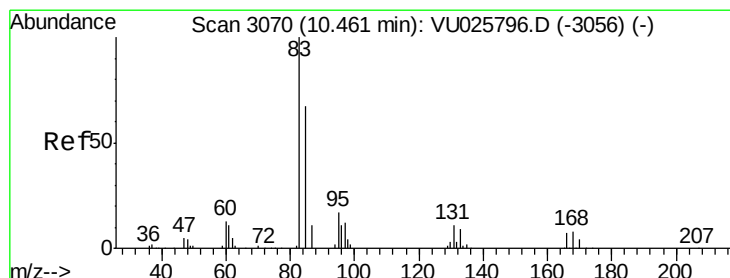
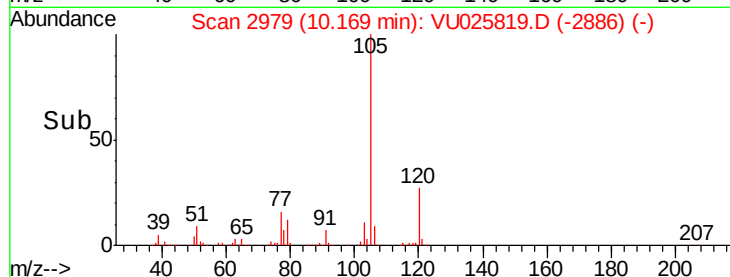
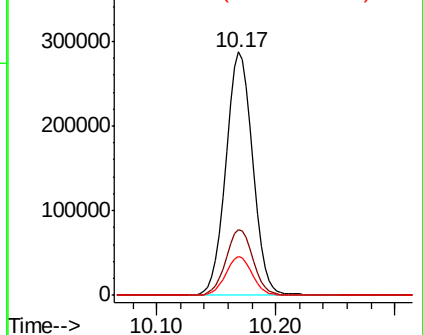
77 15.8 12.4 18.6



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: 47.415 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

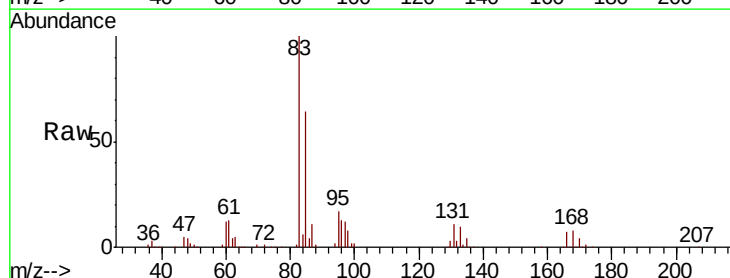
Tgt Ion: 83 Resp: 159305

Ion Ratio Lower Upper

83 100

85 63.8 45.1 83.7

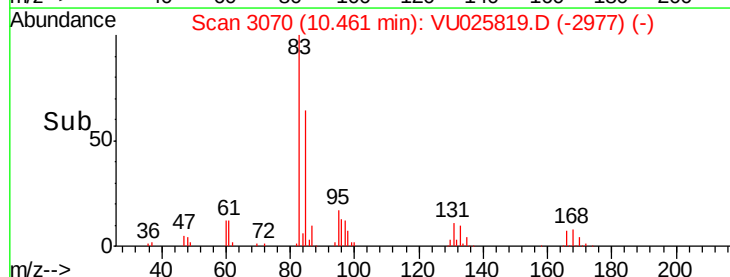
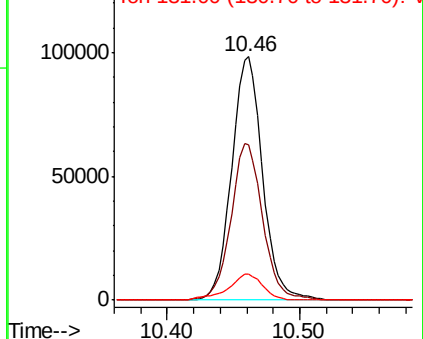
131 10.7 8.7 13.1

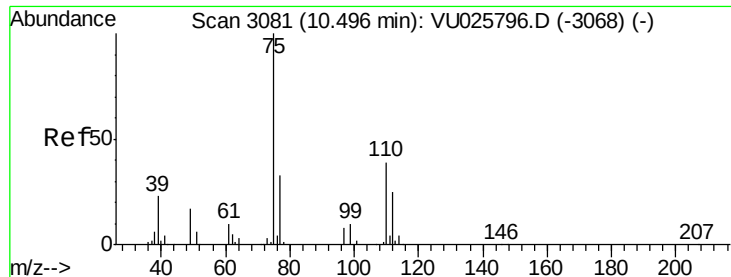


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.751 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

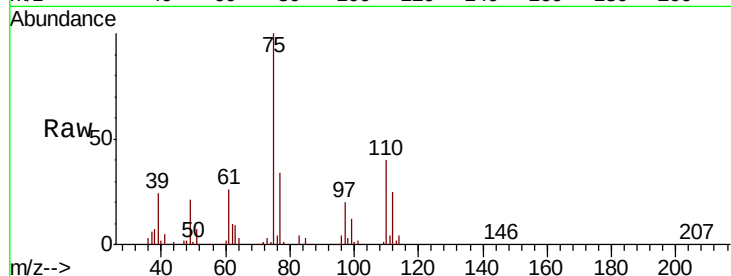
VSTD05050

Tgt Ion: 75 Resp: 119243

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU025796.D (-3068) (-)

Ion 77.00 (76.70 to 77.70): VU025796.D (-3068) (-)

10.50

80000

60000

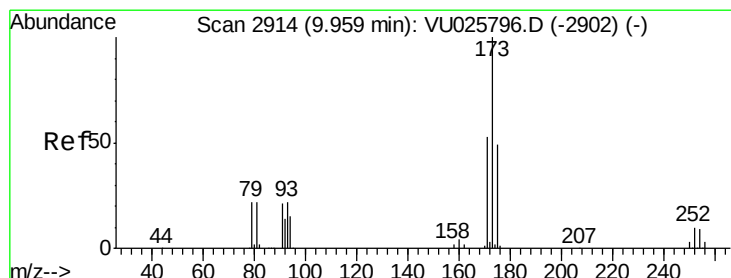
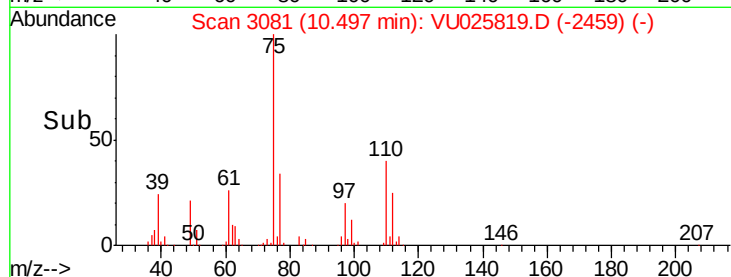
40000

20000

0

10.45 10.50 10.55

Time-->



#61

Bromoform

Concen: 46.484 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

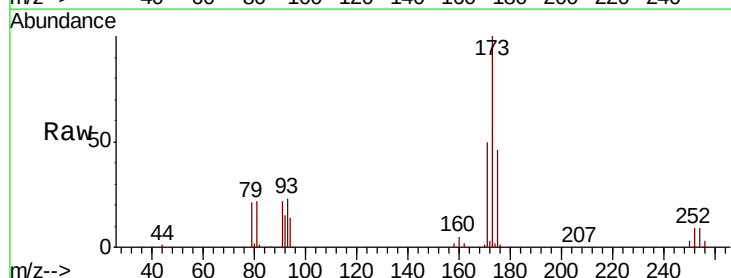
Tgt Ion: 173 Resp: 88011

Ion Ratio Lower Upper

173 100

175 48.5 39.8 59.8

254 9.5 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU025796.D (-2902) (-)

Ion 175.00 (174.70 to 175.70): VU025796.D (-2902) (-)

Ion 254.00 (253.70 to 254.70): VU025796.D (-2902) (-)

9.96

60000

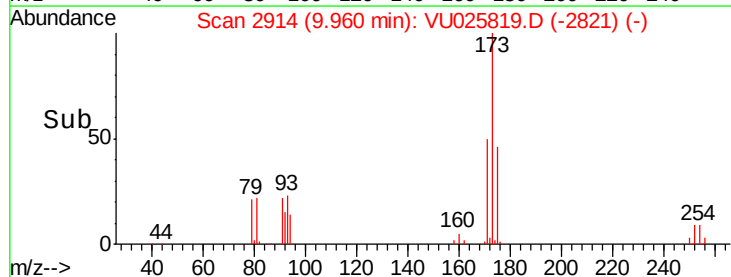
40000

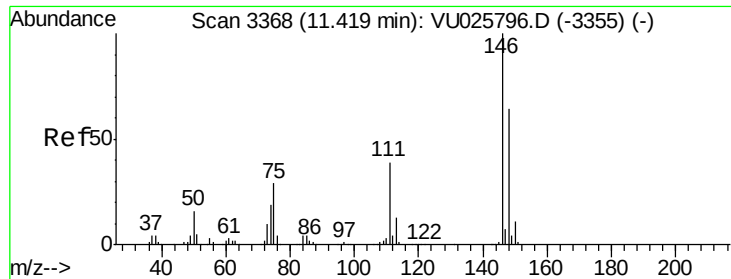
20000

0

9.90 9.95 10.00

Time-->





#62

1,3-Dichlorobenzene

Concen: 46.939 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

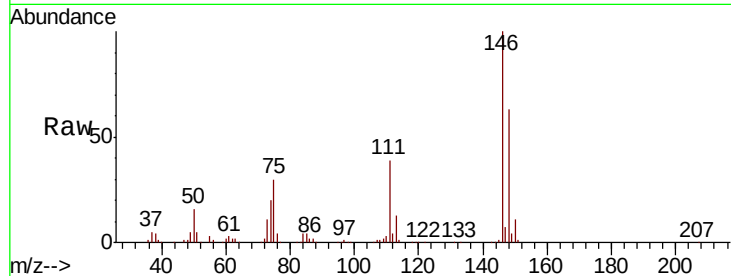
Tgt Ion:146 Resp: 217334

Ion Ratio Lower Upper

146 100

111 39.2 27.7 51.5

148 62.9 45.5 84.5

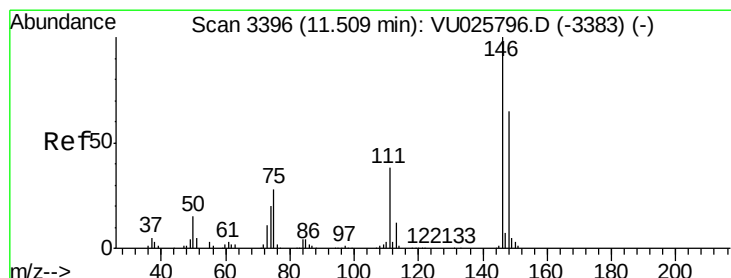
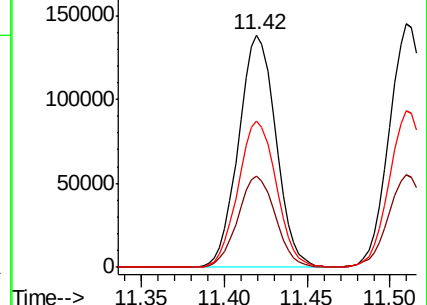
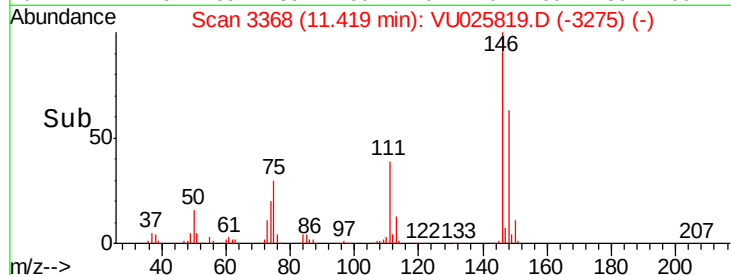


Abundance

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: 47.895 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

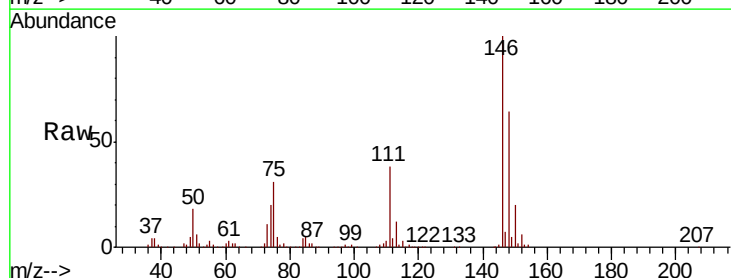
Tgt Ion:146 Resp: 226367

Ion Ratio Lower Upper

146 100

111 38.0 26.9 49.9

148 64.4 44.6 82.8

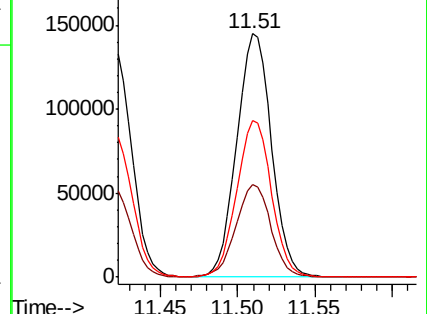
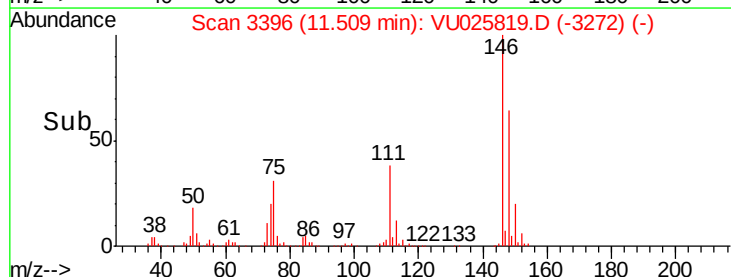


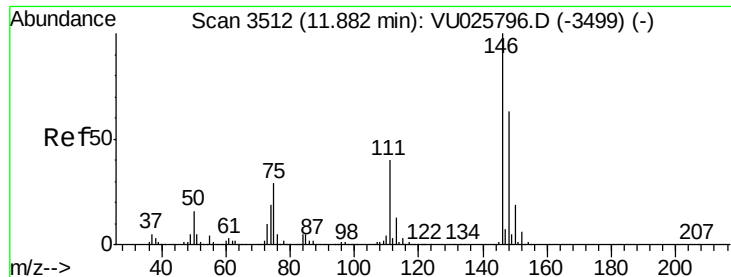
Abundance

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

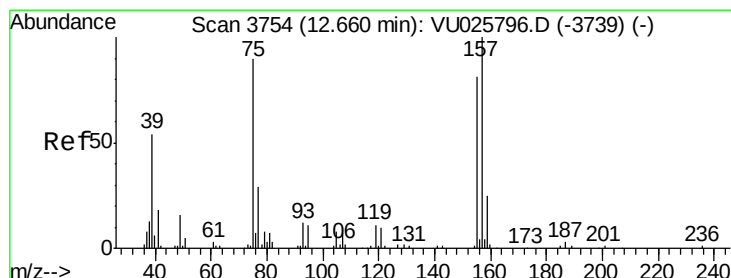
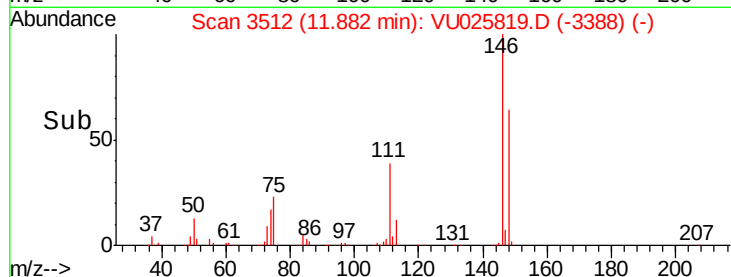
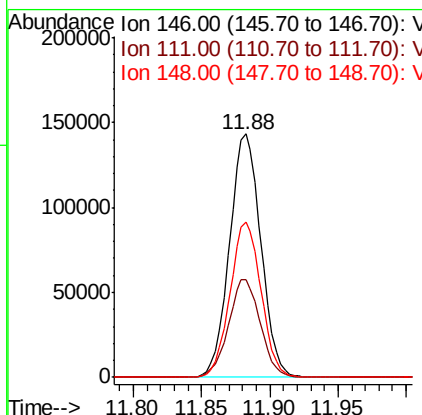
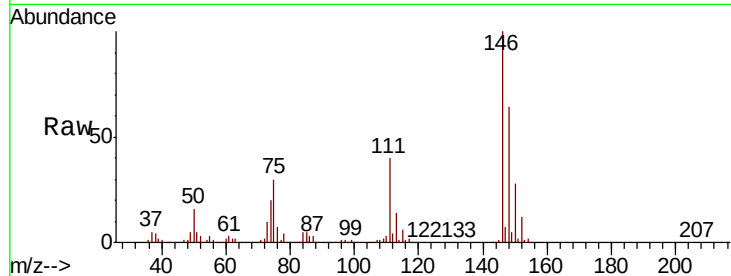




#65
 1,2-Dichlorobenzene
 Concen: 47.091 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

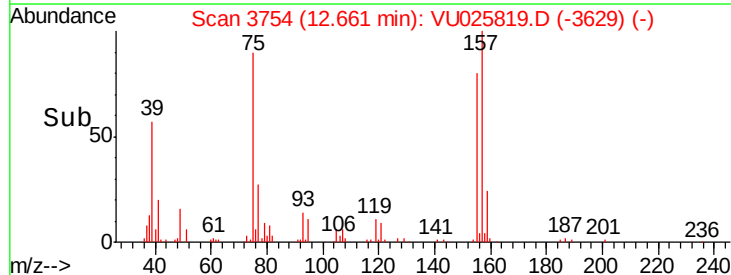
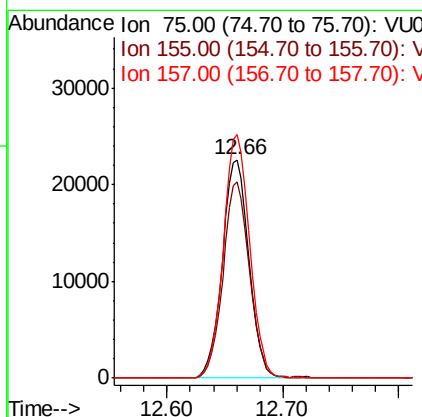
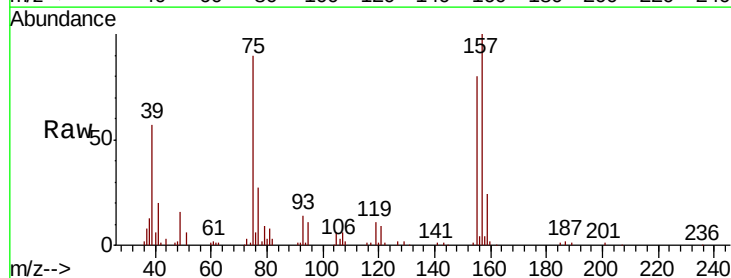
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

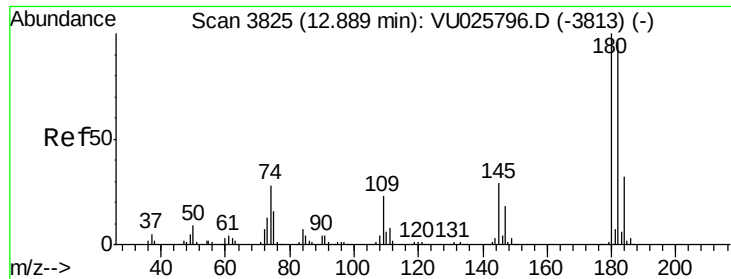
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	32.4	48.6
148	64.0	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.225 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.6	66.3	99.5
157	111.4	91.5	137.3

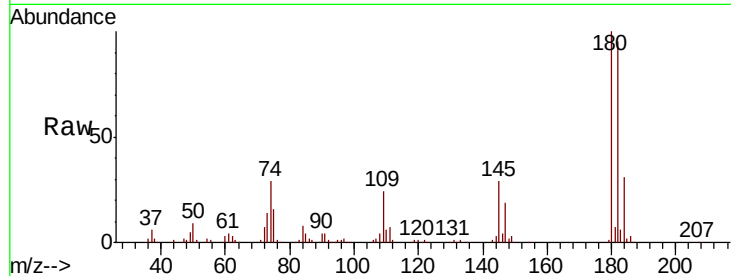




#67
 1,3,5-Trichlorobenzene
 Concen: 47.518 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.3	115.9
184	30.9	24.6	36.8
145	29.1	23.0	34.6



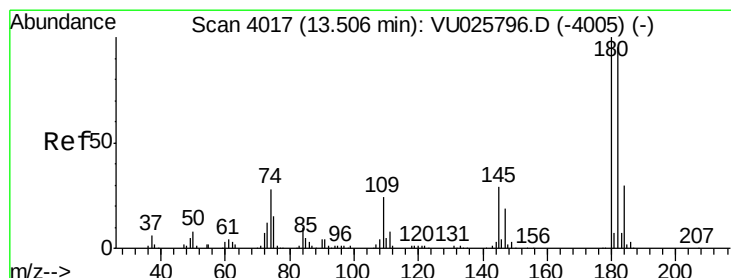
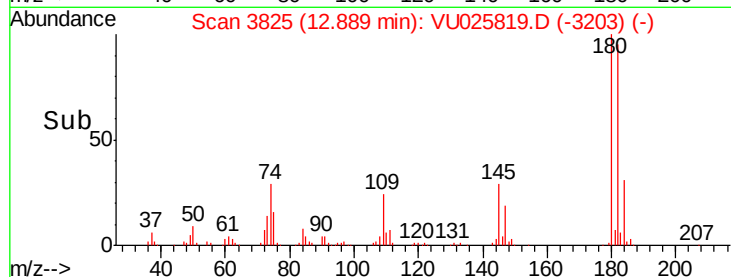
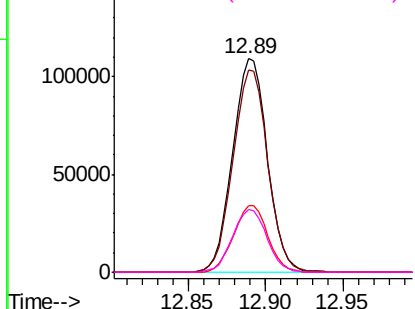
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

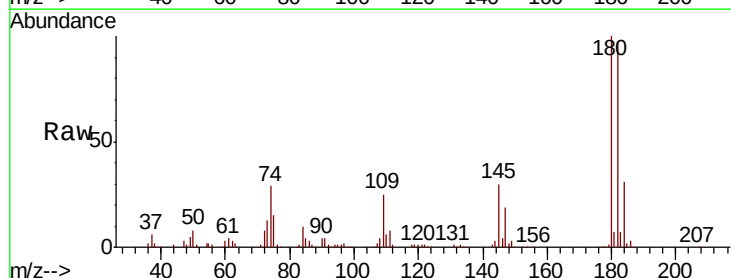
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 48.608 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025819.D
 Acq: 03 Aug 2018 15:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	78.1	117.1
145	29.7	23.4	35.2

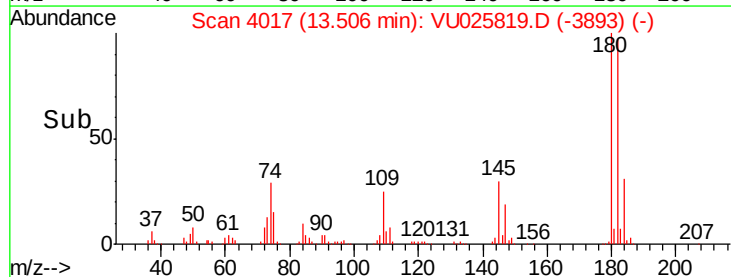
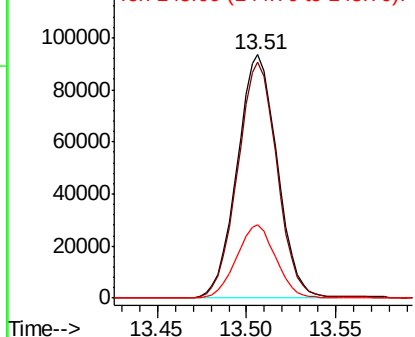


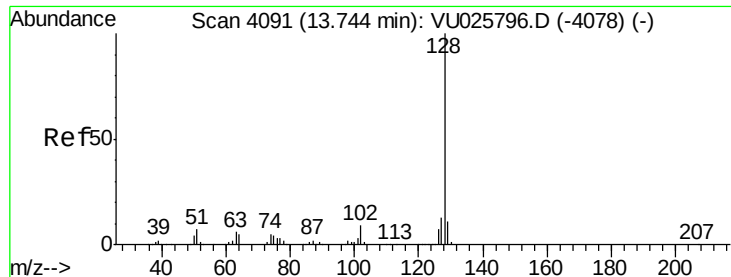
Abundance

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: 48.029 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

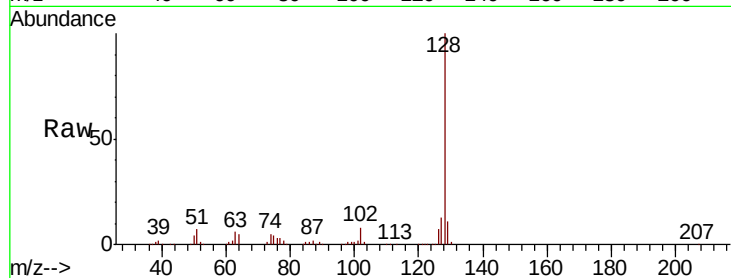
Tgt Ion:128 Resp: 433845

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

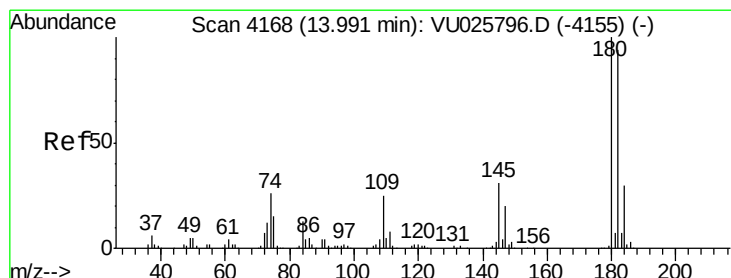
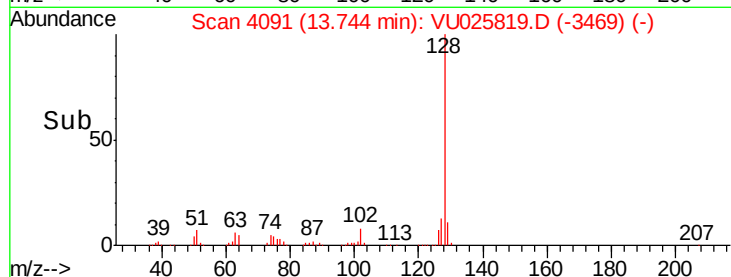
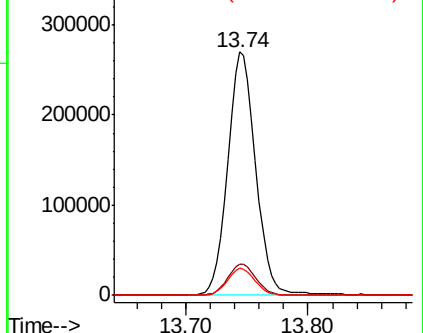
129 11.1 8.4 12.6



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: 48.515 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. 0.00 min

Lab File: VU025819.D

Acq: 03 Aug 2018 15:28

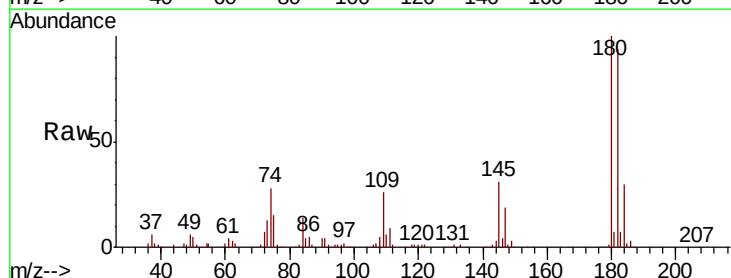
Tgt Ion:180 Resp: 154048

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

