

Data File : VU034725.D
Acq On : 21 Sep 2019 05:48
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Quant Time: Sep 21 07:03:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Sep 21 05:27:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	450370	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	436454	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	208024	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	159358	34.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	69.12%
7) Chloroethane-d5	1.67	69	135886	38.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	76.26%
11) 1,1-Dichloroethene-d2	2.26	63	310247	39.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.46%
21) 2-Butanone-d5	4.15	46	360533	102.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.03%
24) Chloroform-d	4.62	84	306682	45.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.50%
26) 1,2-Dichloroethane-d4	5.29	65	218695	44.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.76%
32) Benzene-d6	5.32	84	586145	43.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.66%
36) 1,2-Dichloropropane-d6	6.31	67	209408	44.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.58%
41) Toluene-d8	7.54	98	554787	43.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.22%
43) trans-1,3-Dichloropropene-	7.83	79	96557	42.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.28%
47) 2-Hexanone-d5	8.29	63	228353	96.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.16%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	302000	46.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.06%
64) 1,2-Dichlorobenzene-d4	11.84	152	197780	45.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.68%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	212214	45.718	ug/L	98
3) Chloromethane	1.32	50	262696	47.246	ug/L	98
5) Vinyl chloride	1.40	62	236632	46.597	ug/L	99
6) Bromomethane	1.62	94	125034	45.081	ug/L	92
8) Chloroethane	1.69	64	141382	48.360	ug/L	97
9) Trichlorofluoromethane	1.87	101	292085	45.616	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	138950	45.259	ug/L	97
12) 1,1-Dichloroethene	2.27	96	138540	47.017	ug/L	88
13) Acetone	2.31	43	245746	59.785	ug/L	99
14) Carbon disulfide	2.46	76	452187	45.482	ug/L	99
15) Methyl Acetate	2.60	43	269473	49.077	ug/L	99
16) Methylene chloride	2.68	84	178568	47.841	ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	155468	48.258	ug/L	96
18) Methyl tert-butyl Ether	2.98	73	579626	48.496	ug/L	99
19) 1,1-Dichloroethane	3.42	63	352576	47.707	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	186519	49.515	ug/L	92
22) 2-Butanone	4.23	43	401553	82.114	ug/L	100

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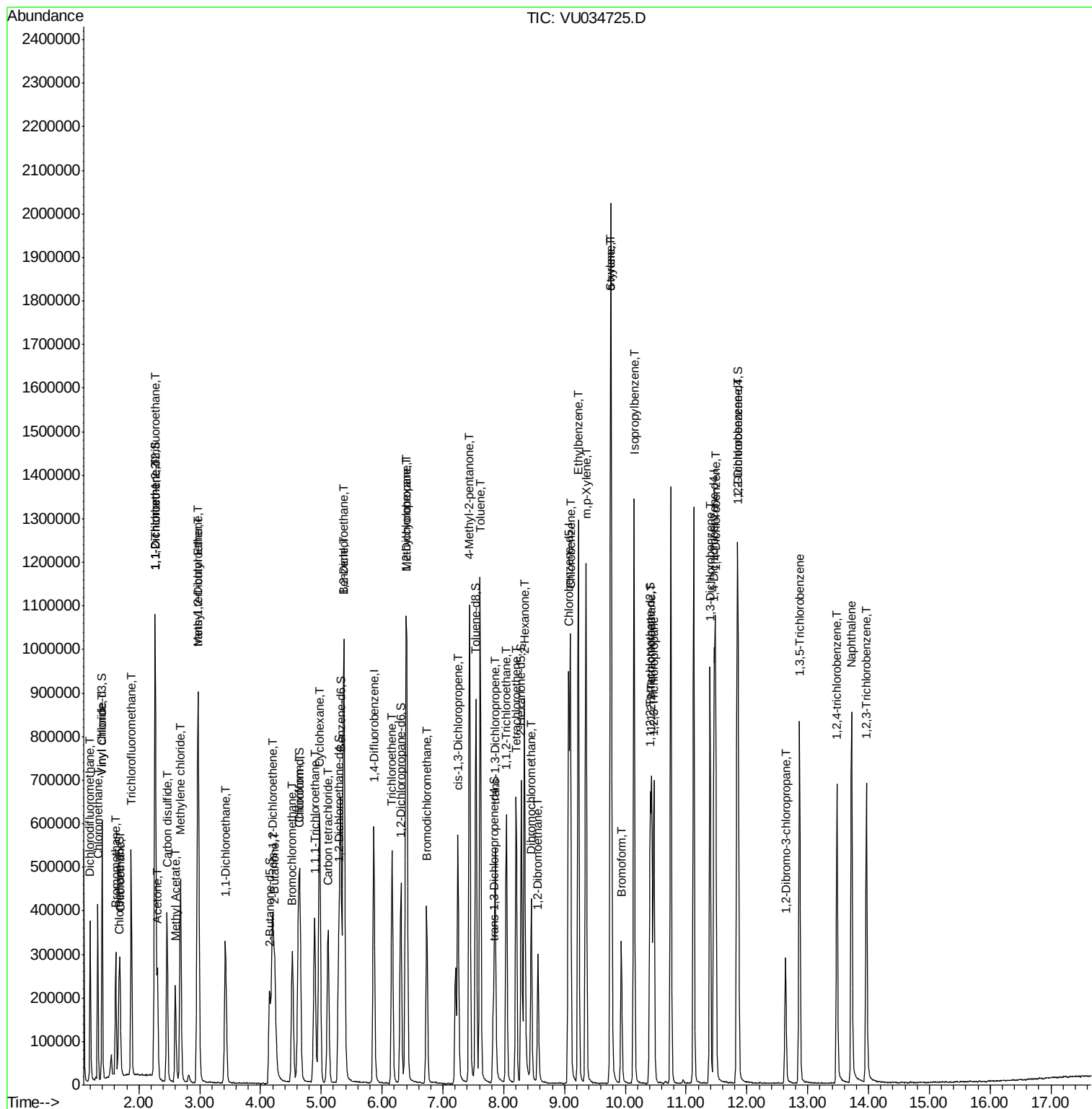
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	86810	48.147	ug/L	96
25) Chloroform	4.65	83	339240	46.614	ug/L	99
27) 1,2-Dichloroethane	5.38	62	294625	46.865	ug/L	99
29) Cyclohexane	4.97	56	329405	45.726	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	277699	46.748	ug/L	98
31) Carbon tetrachloride	5.11	117	238369	47.083	ug/L	99
33) Benzene	5.37	78	729778	48.211	ug/L	100
34) Trichloroethene	6.16	95	178130	47.648	ug/L	97
35) Methylcyclohexane	6.39	83	286455	45.153	ug/L	98
37) 1,2-Dichloropropane	6.41	63	214682	47.630	ug/L	99
38) Bromodichloromethane	6.73	83	250259	45.784	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	286780	42.345	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	811305	94.280	ug/L	98
42) Toluene	7.61	91	787118	48.114	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	276371	45.267	ug/L	98
45) 1,1,2-Trichloroethane	8.04	97	172210	47.698	ug/L	97
46) Tetrachloroethene	8.21	164	128947	49.036	ug/L	93
48) 2-Hexanone	8.34	43	616844	91.780	ug/L	100
49) Dibromochloromethane	8.45	129	189631	47.122	ug/L	99
50) 1,2-Dibromoethane	8.56	107	189186	48.620	ug/L	100
51) Chlorobenzene	9.10	112	473757	47.639	ug/L	99
52) Ethylbenzene	9.23	91	867557	47.094	ug/L	98
53) m,p-Xylene	9.35	106	310473	47.582	ug/L	99
54) o-xylene	9.76	106	311281	48.233	ug/L	97
55) Styrene	9.77	104	527852	48.320	ug/L	99
56) Isopropylbenzene	10.14	105	818735	47.050	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	323941	46.715	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	258182	45.862	ug/L	98
61) Bromoform	9.94	173	134761	47.051	ug/L	100
62) 1,3-Dichlorobenzene	11.39	146	350058	48.592	ug/L	96
63) 1,4-Dichlorobenzene	11.48	146	347719	47.382	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	348329	47.854	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.63	75	72111	46.608	ug/L	96
67) 1,3,5-Trichlorobenzene	12.86	180	231385	47.937	ug/L	95
68) 1,2,4-trichlorobenzene	13.48	180	193256	50.914	ug/L	99
69) Naphthalene	13.72	128	661459	50.338	ug/L	99
70) 1,2,3-Trichlorobenzene	13.96	180	189819	48.601	ug/L	98

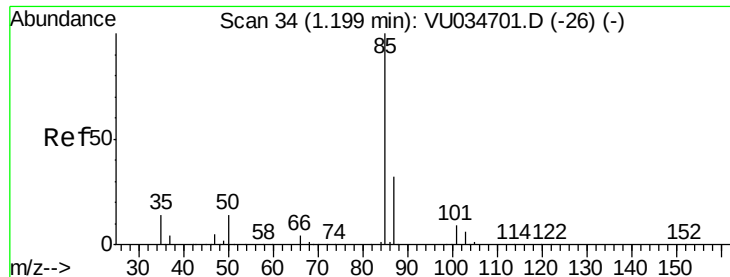
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 45.718 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

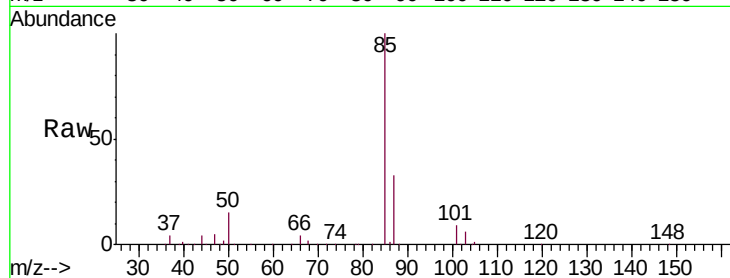
VSTD05039

Tgt Ion: 85 Resp: 212214

Ion Ratio Lower Upper

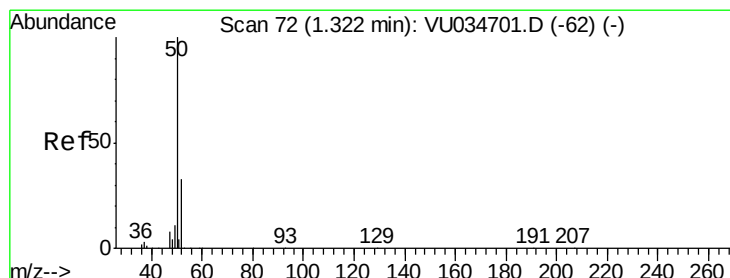
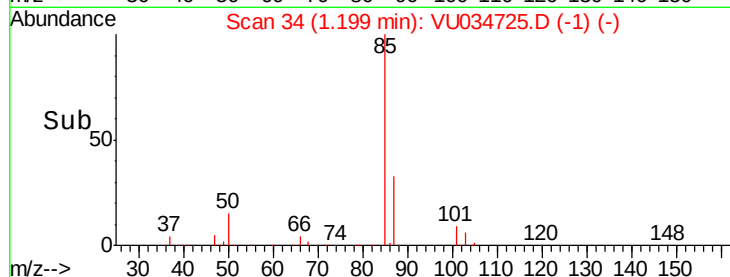
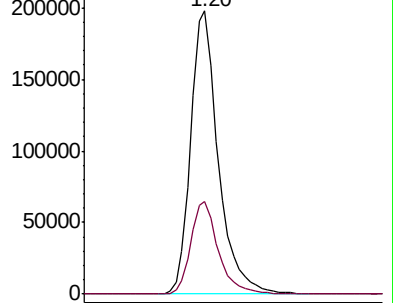
85 100

87 32.7 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU034725.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU034725.D (-1) (-)



#3

Chloromethane

Concen: 47.246 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034725.D

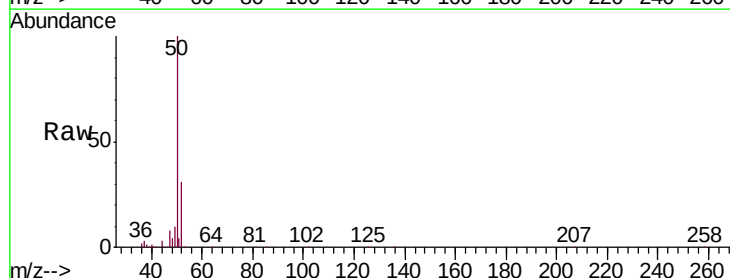
Acq: 21 Sep 2019 05:48

Tgt Ion: 50 Resp: 262696

Ion Ratio Lower Upper

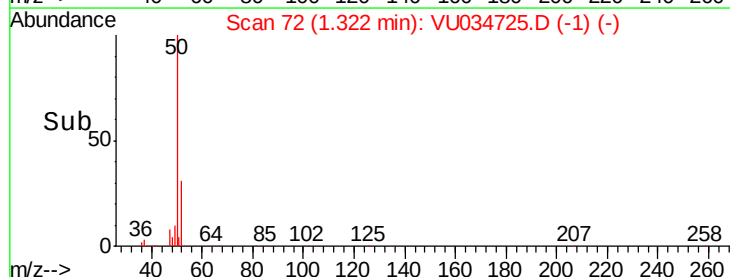
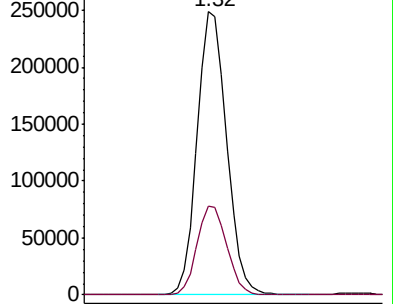
50 100

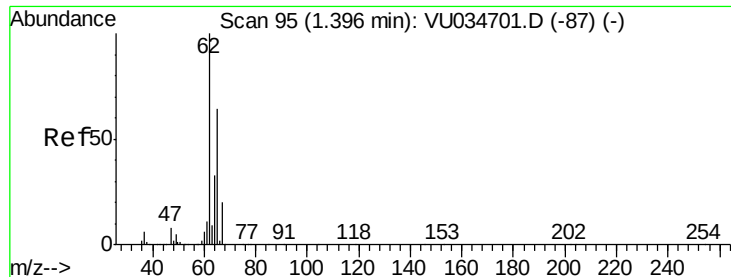
52 31.5 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU034725.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU034725.D (-1) (-)





#5

Vinyl chloride

Concen: 46.597 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

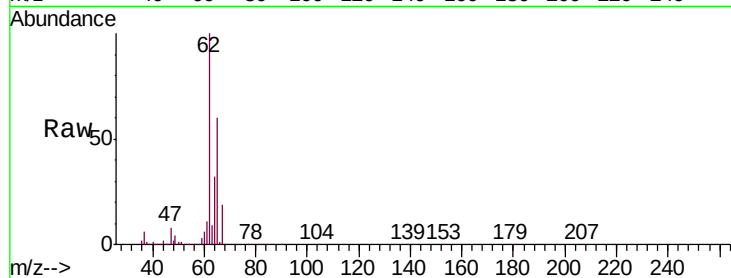
VSTD05039

Tgt Ion: 62 Resp: 236632

Ion Ratio Lower Upper

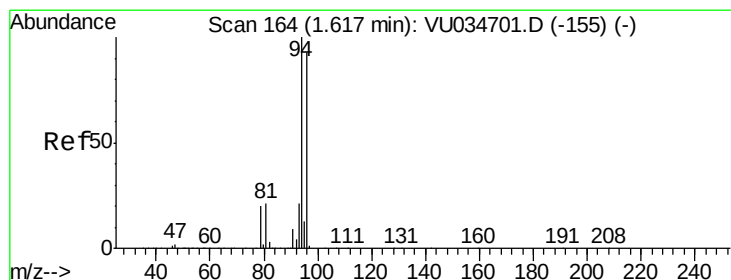
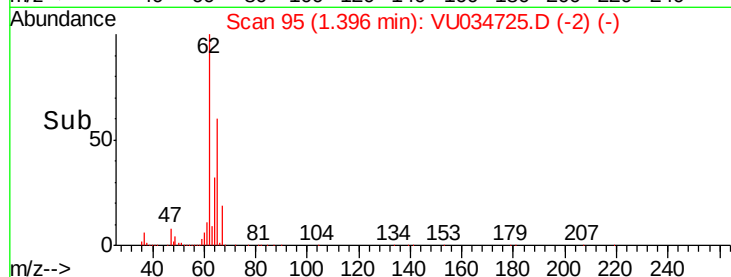
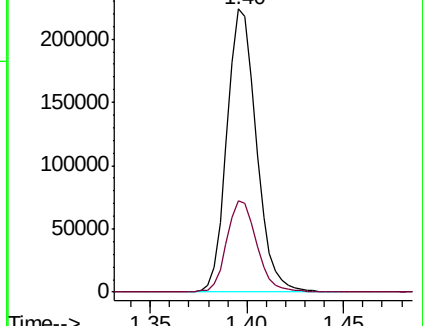
62 100

64 32.5 22.2 41.2



Abundance Ion 62.00 (61.70 to 62.70): VU034725.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU034725.D (-87) (-)



#6

Bromomethane

Concen: 45.081 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU034725.D

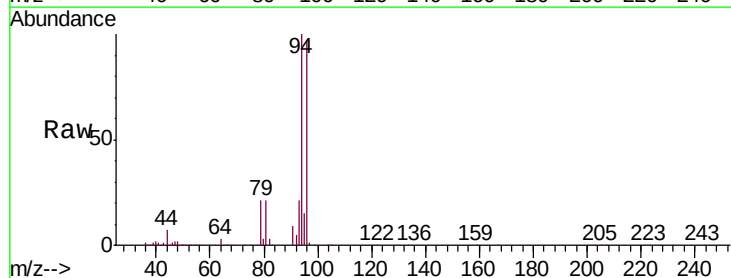
Acq: 21 Sep 2019 05:48

Tgt Ion: 94 Resp: 125034

Ion Ratio Lower Upper

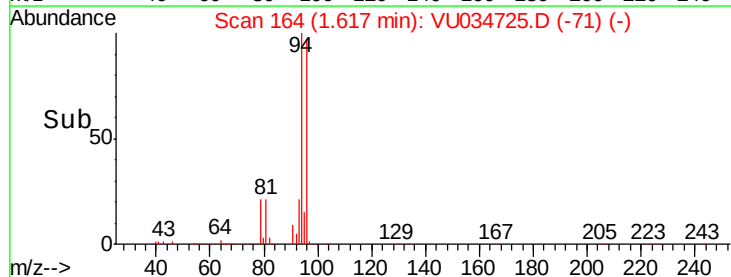
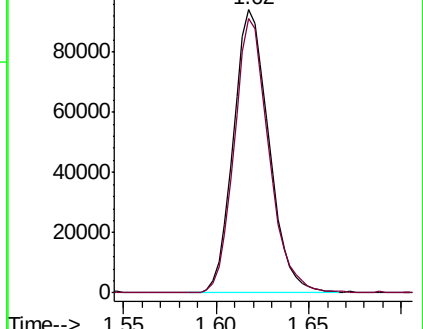
94 100

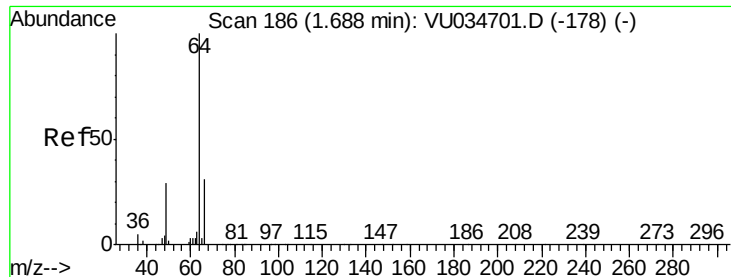
96 96.9 62.8 116.6



Abundance Ion 94.00 (93.70 to 94.70): VU034725.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU034725.D (-155) (-)





#8

Chloroethane

Concen: 48.360 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

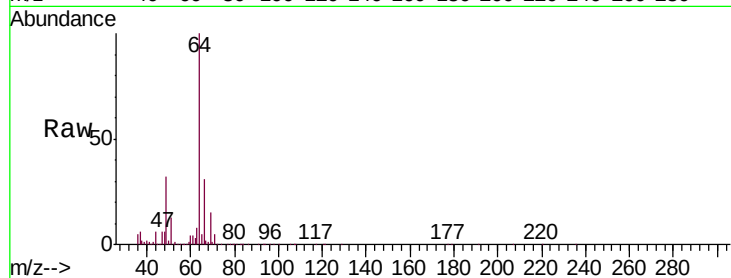
VSTD05039

Tgt Ion: 64 Resp: 141382

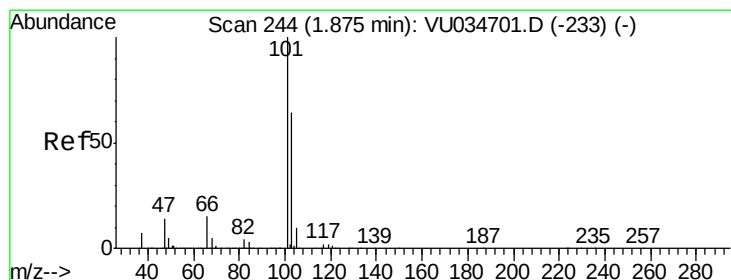
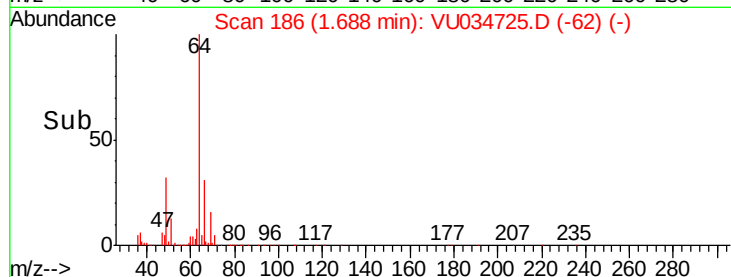
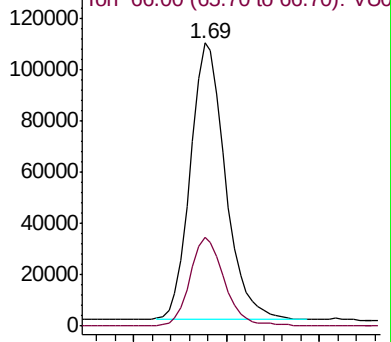
Ion Ratio Lower Upper

64 100

66 31.2 23.1 42.9



Abundance Ion 64.00 (63.70 to 64.70): VU034701.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 45.616 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU034725.D

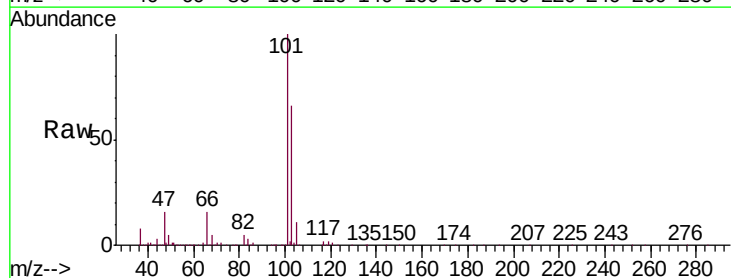
Acq: 21 Sep 2019 05:48

Tgt Ion: 101 Resp: 292085

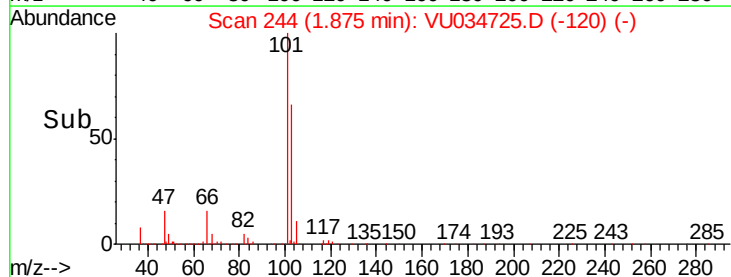
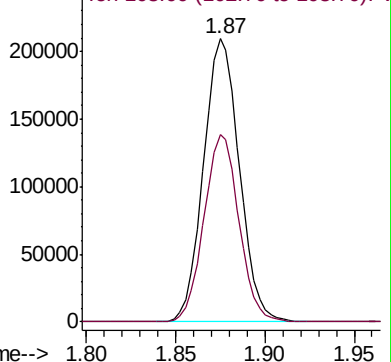
Ion Ratio Lower Upper

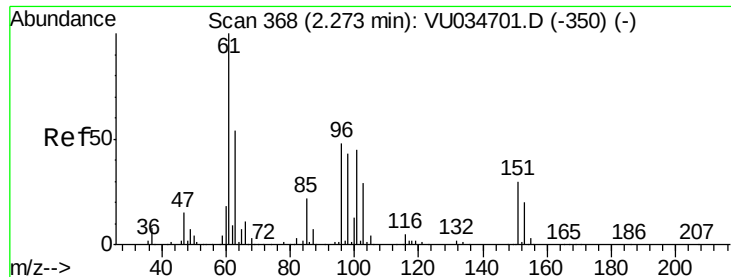
101 100

103 64.7 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU034701.D (-233) (-)





#10

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

Concen: 45.259 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034725.D

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Instrument :

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ClientSampleId :

VSTD05039

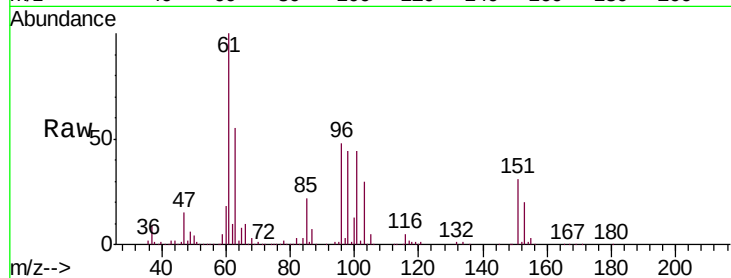
Tgt Ion:101 Resp: 138950

Ion Ratio Lower Upper

101 100

85 48.5 39.0 58.4

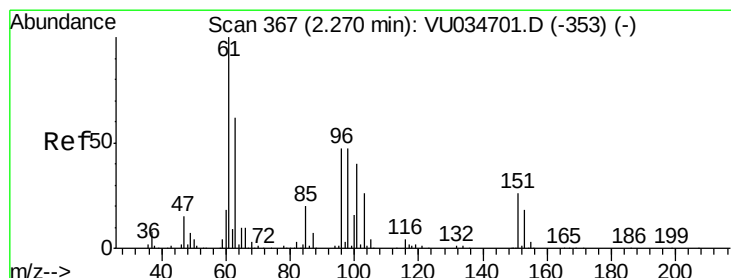
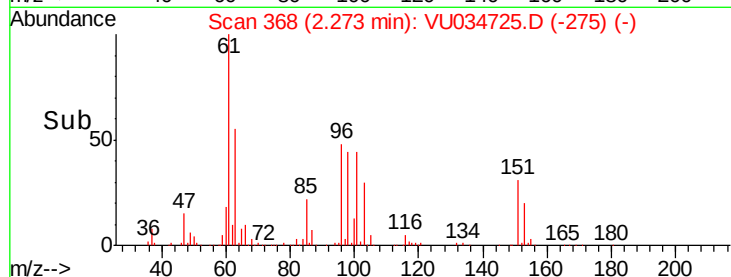
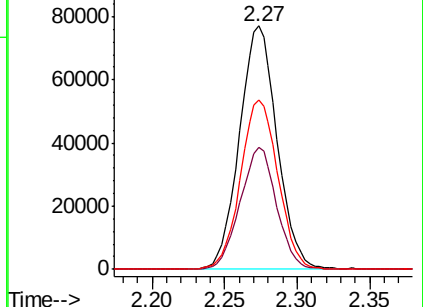
151 69.4 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 47.017 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

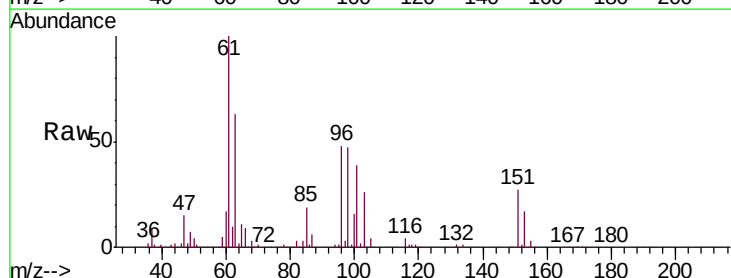
Tgt Ion: 96 Resp: 138540

Ion Ratio Lower Upper

96 100

61 210.3 153.2 284.4

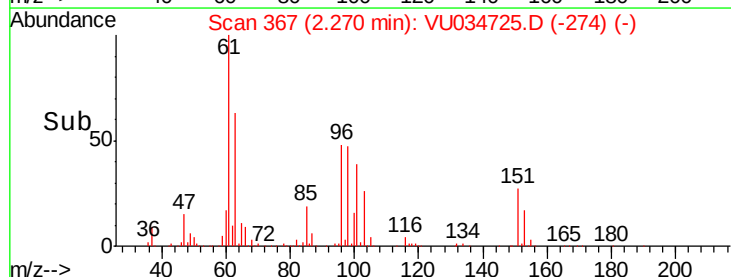
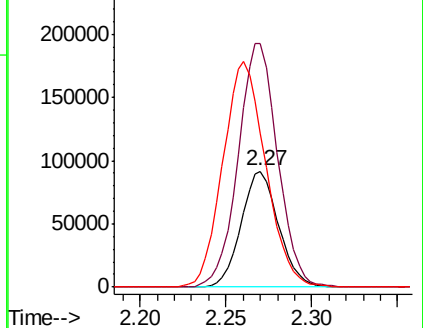
63 133.4 113.8 211.3

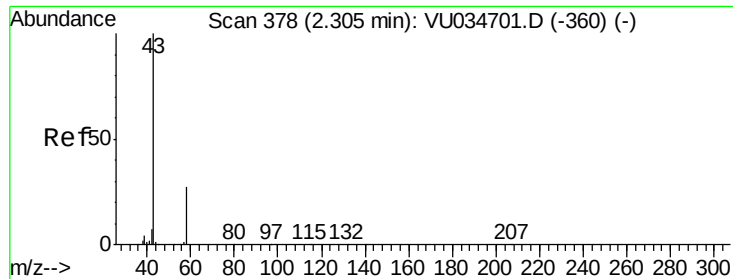


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 59.785 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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ClientSampleId :

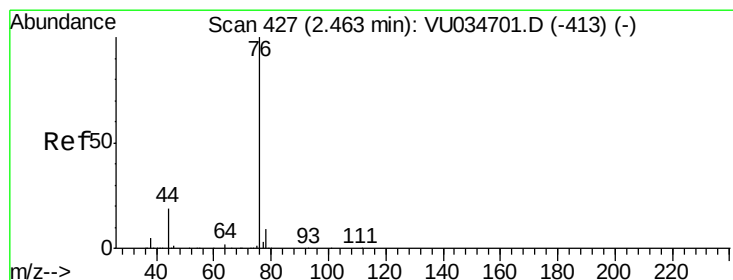
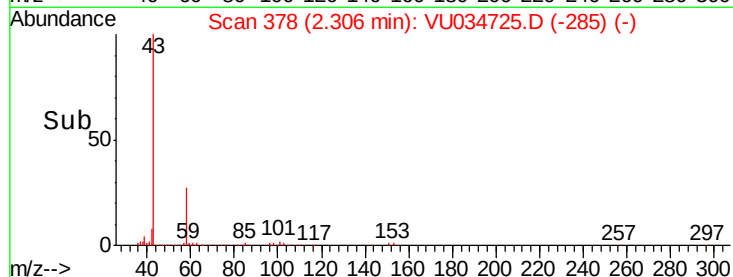
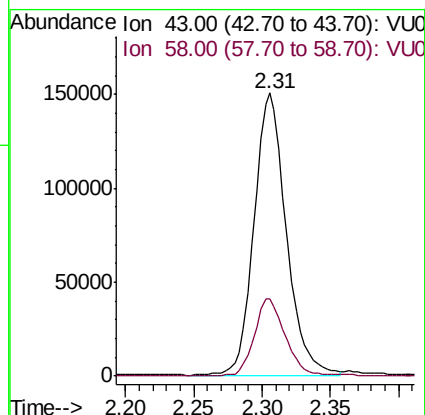
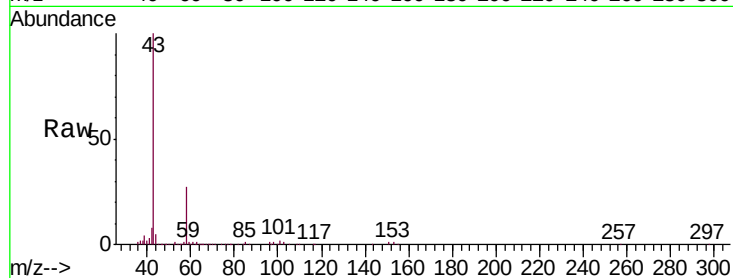
VSTD05039

Tgt Ion: 43 Resp: 245746

Ion Ratio Lower Upper

43 100

58 26.1 0.0 53.4



#14

Carbon disulfide

Concen: 45.482 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034725.D

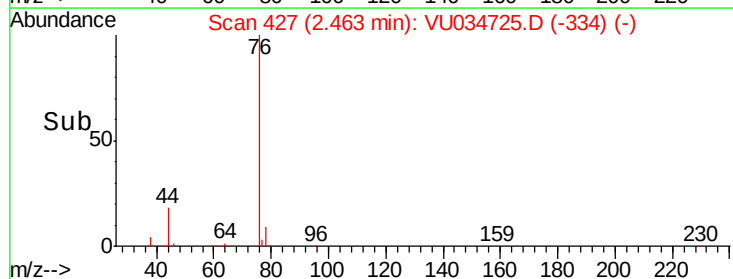
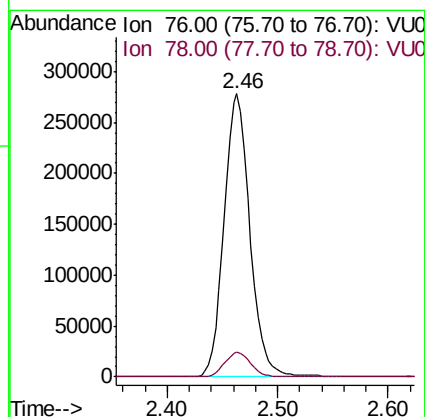
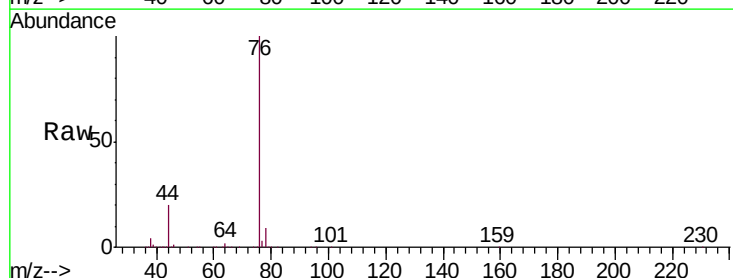
Acq: 21 Sep 2019 05:48

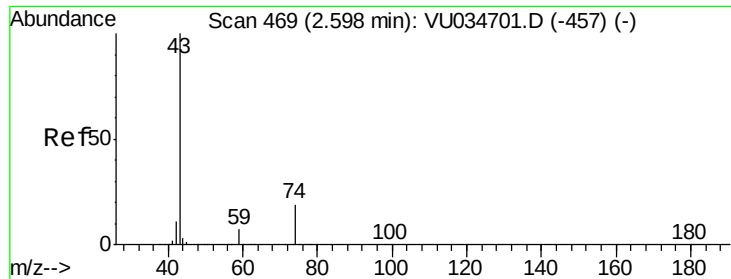
Tgt Ion: 76 Resp: 452187

Ion Ratio Lower Upper

76 100

78 8.9 6.9 10.3

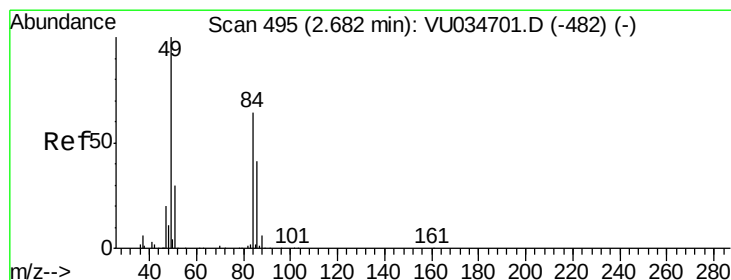
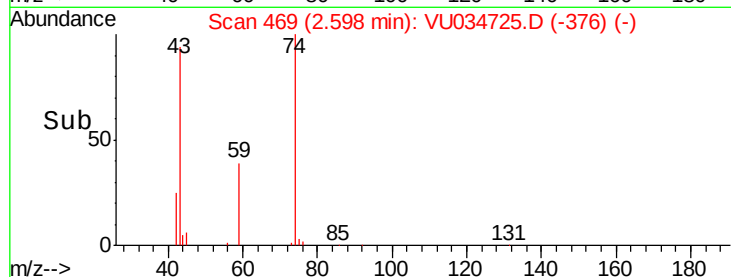
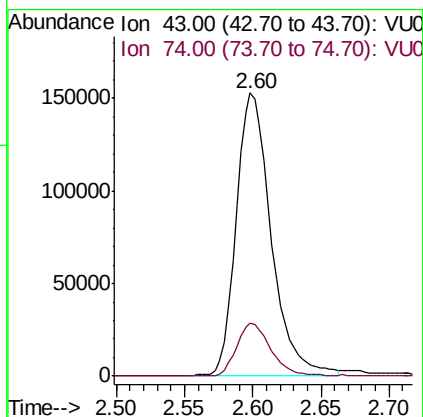
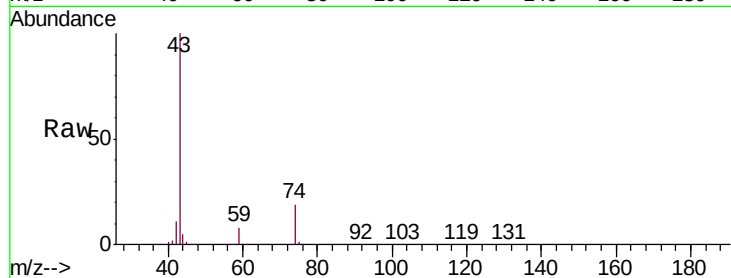




#15
Methyl Acetate
Concen: 49.077 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

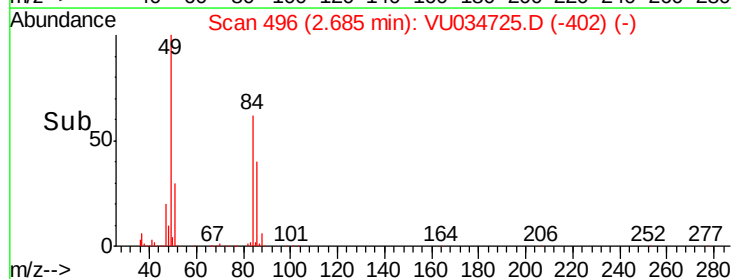
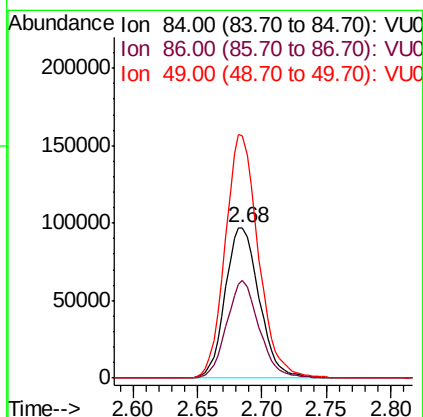
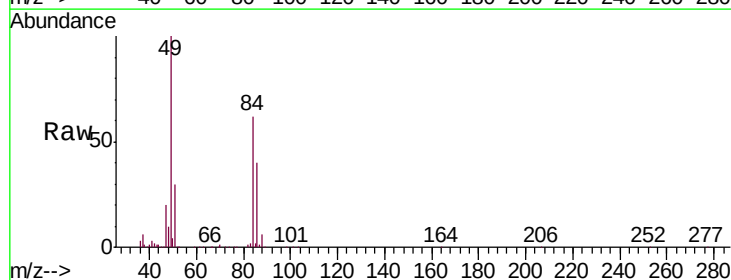
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

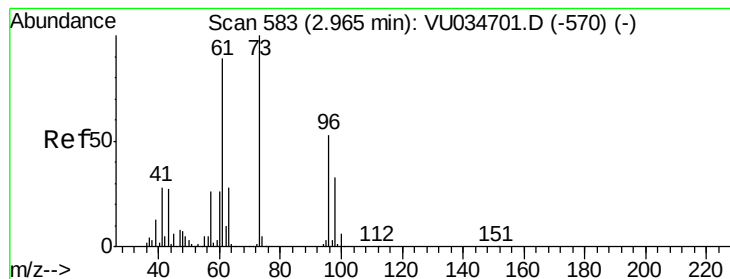
Tgt Ion: 43 Resp: 269473
Ion Ratio Lower Upper
43 100
74 18.4 14.4 21.6



#16
Methylene chloride
Concen: 47.841 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

Tgt Ion: 84 Resp: 178568
Ion Ratio Lower Upper
84 100
86 64.7 43.0 80.0
49 160.5 109.7 203.7





#17

trans-1,2-Dichloroethene

Concen: 48.258 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

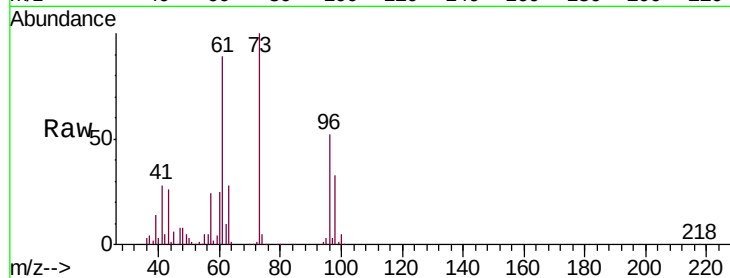
Tgt Ion: 96 Resp: 155468

Ion Ratio Lower Upper

96 100

61 171.7 124.0 230.4

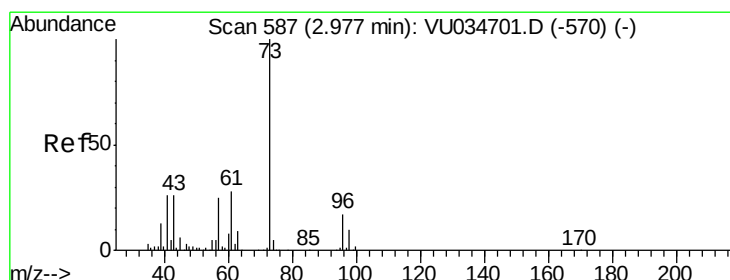
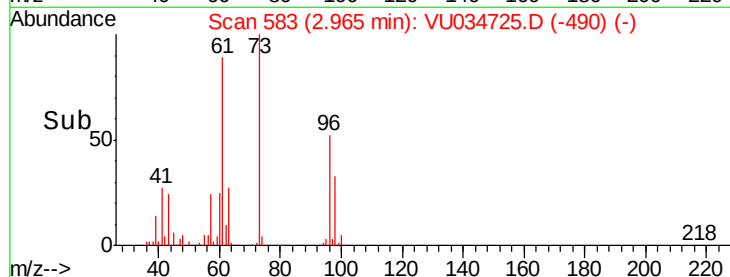
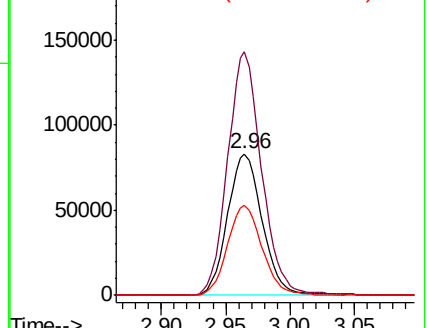
98 63.1 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VU034725.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU034725.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU034725.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 48.496 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

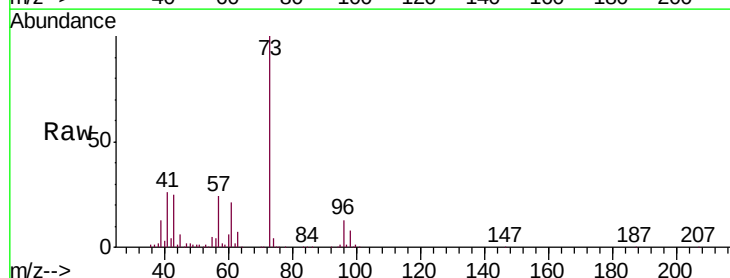
Tgt Ion: 73 Resp: 579626

Ion Ratio Lower Upper

73 100

43 25.3 20.9 31.3

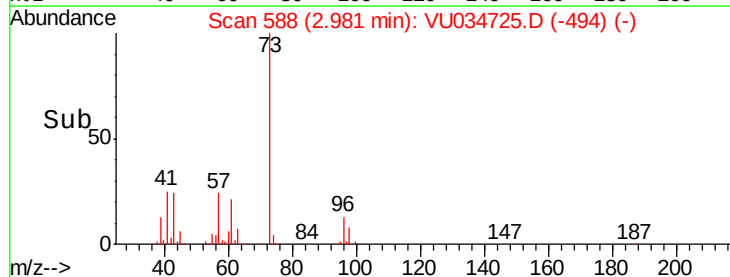
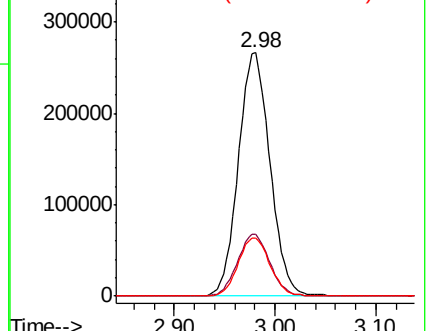
57 24.0 19.5 29.3

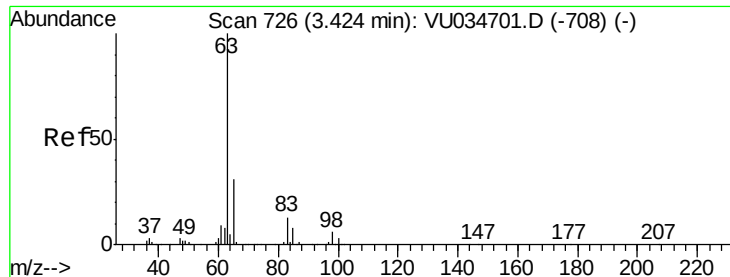


Abundance Ion 73.00 (72.70 to 73.70): VU034725.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU034725.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU034725.D (-494) (-)

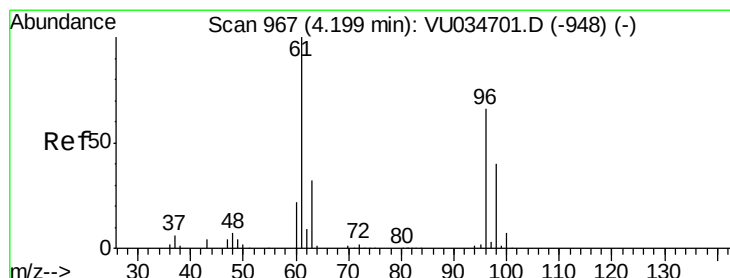
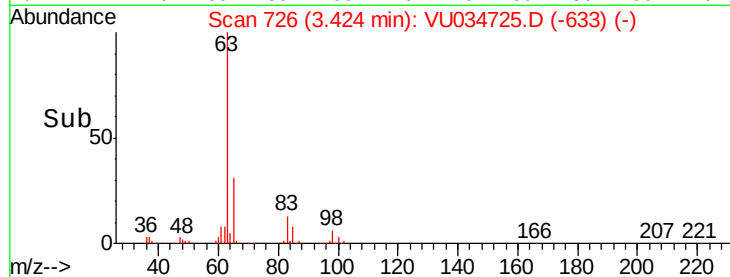
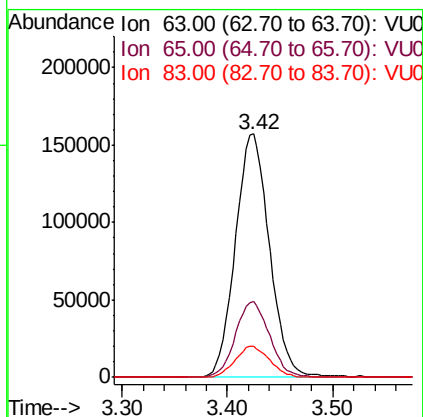
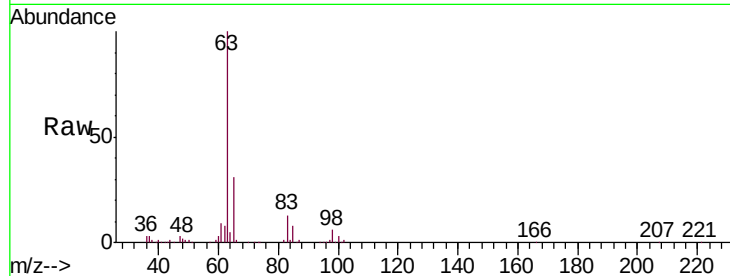




#19
 1,1-Dichloroethane
 Concen: 47.707 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

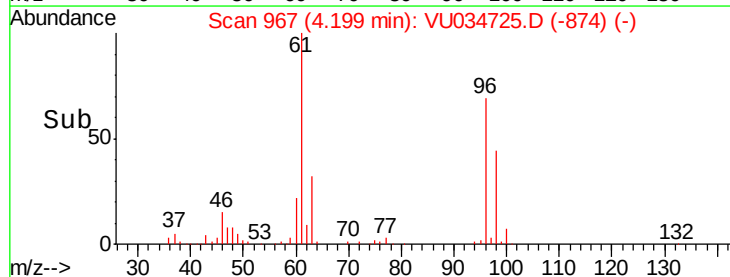
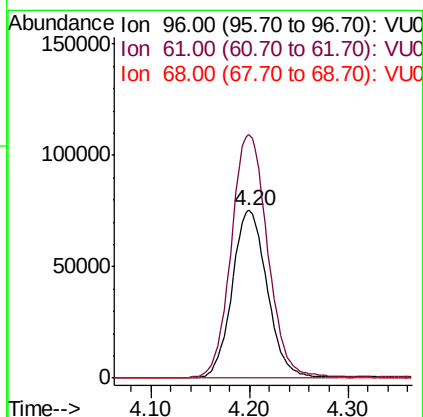
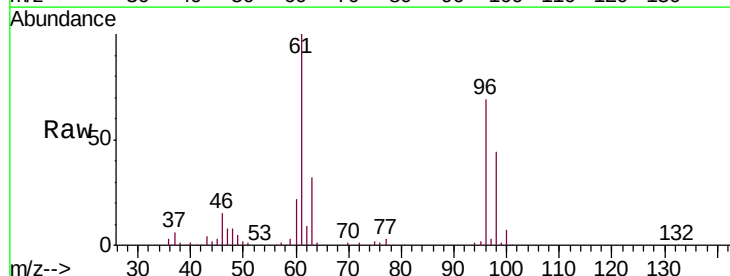
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

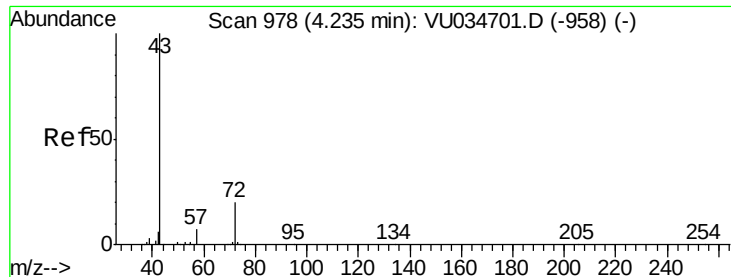
Tgt Ion: 63 Resp: 352576
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.0 40.8
 83 12.7 8.9 16.5



#20
 cis-1,2-Dichloroethene
 Concen: 49.515 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

Tgt Ion: 96 Resp: 186519
 Ion Ratio Lower Upper
 96 100
 61 145.1 108.8 202.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 82.114 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

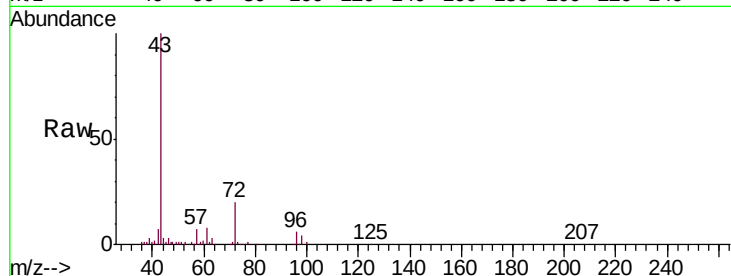
VSTD05039

Tgt Ion: 43 Resp: 401553

Ion Ratio Lower Upper

43 100

72 20.3 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034725.D (-885) (-)

Ion 72.00 (71.70 to 72.70): VU034725.D (-885) (-)

4.23

150000

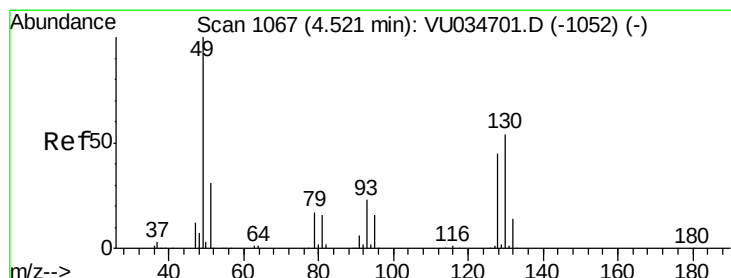
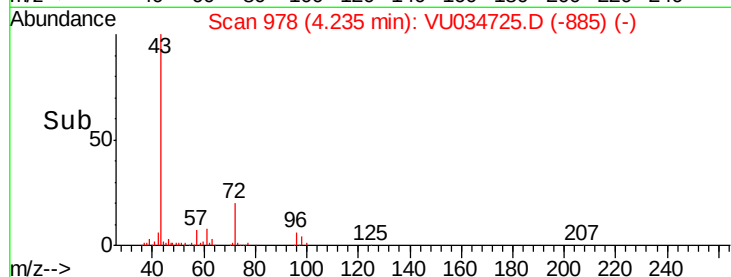
100000

50000

0

4.20 4.30

Time-->



#23

Bromochloromethane

Concen: 48.147 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Tgt Ion: 128 Resp: 86810

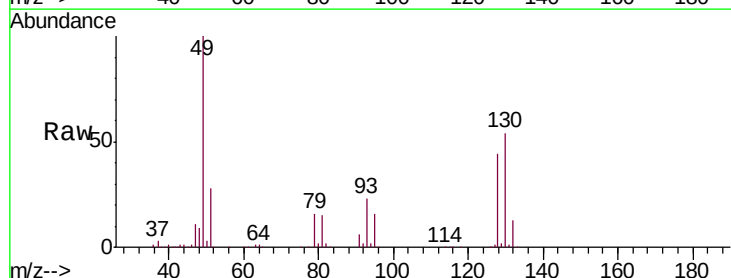
Ion Ratio Lower Upper

128 100

49 225.6 154.3 286.7

130 121.2 83.0 154.2

51 63.3 56.4 84.6



Abundance Ion 128.00 (127.70 to 128.70): VU034725.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VU034725.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VU034725.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VU034725.D (-974) (-)

120000

100000

80000

60000

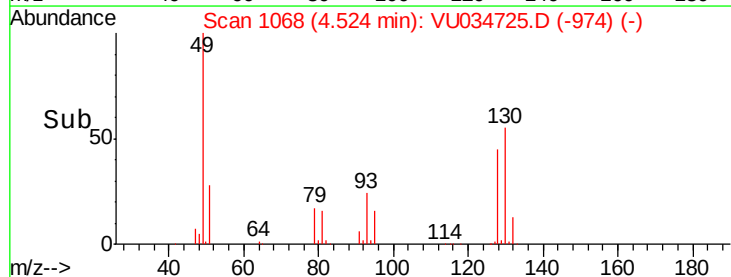
40000

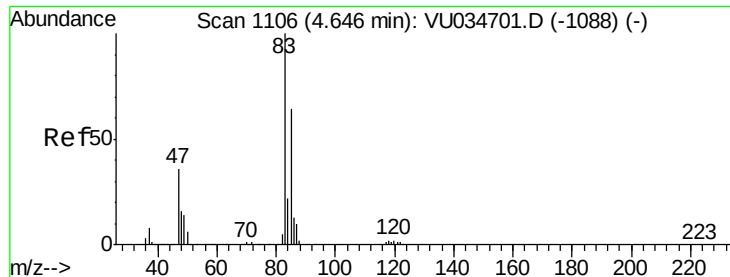
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->

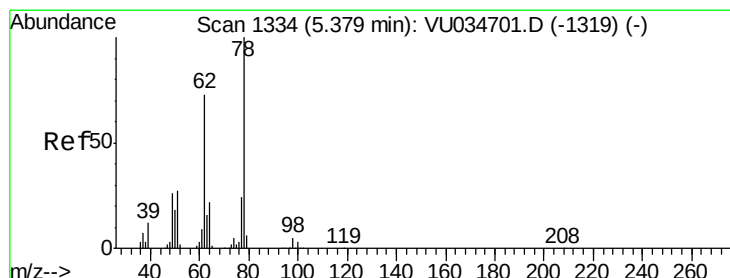
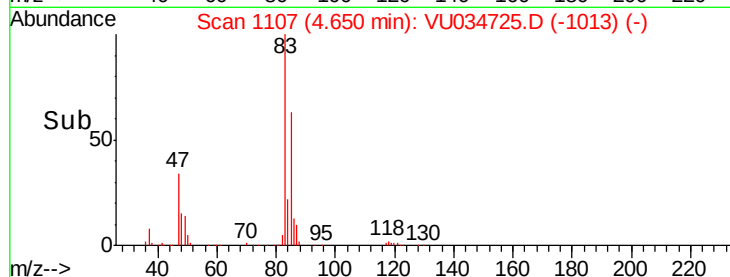
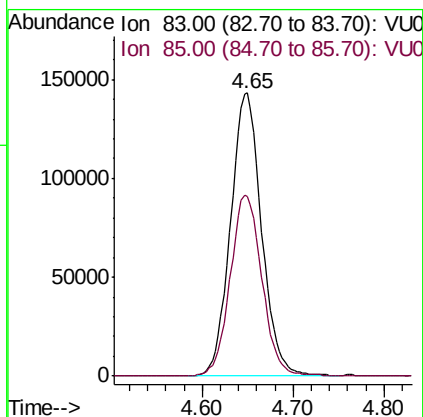
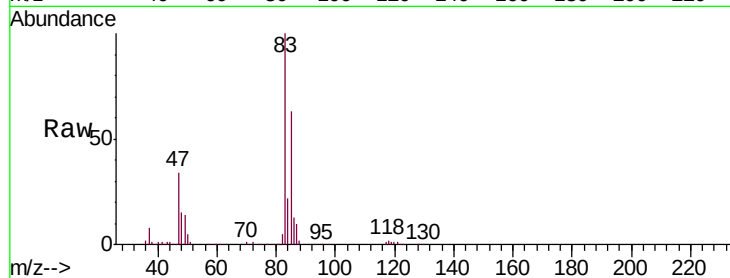




#25
Chloroform
Concen: 46.614 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

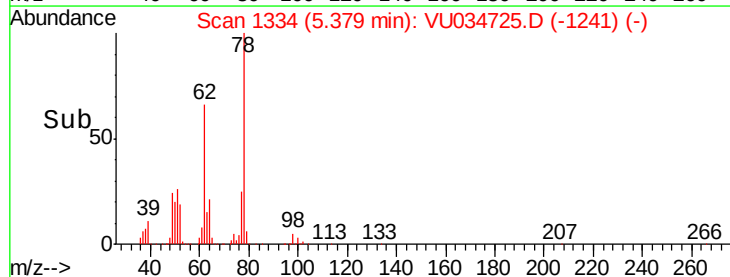
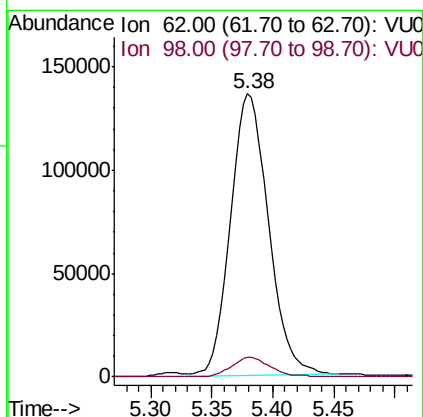
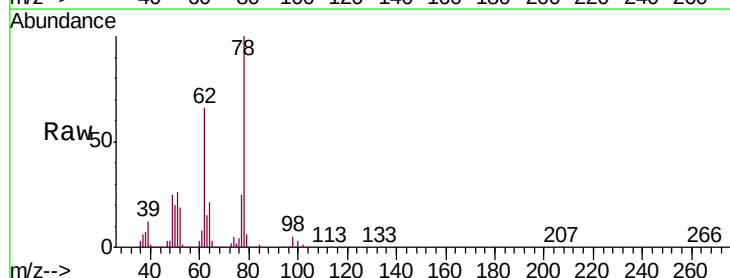
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

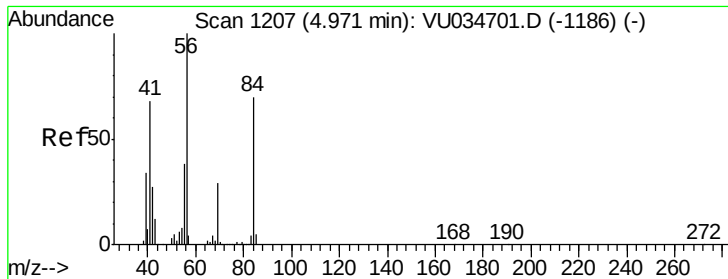
Tgt Ion: 83 Resp: 339240
Ion Ratio Lower Upper
83 100
85 63.4 44.0 81.6



#27
1,2-Dichloroethane
Concen: 46.865 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

Tgt Ion: 62 Resp: 294625
Ion Ratio Lower Upper
62 100
98 7.1 5.3 7.9

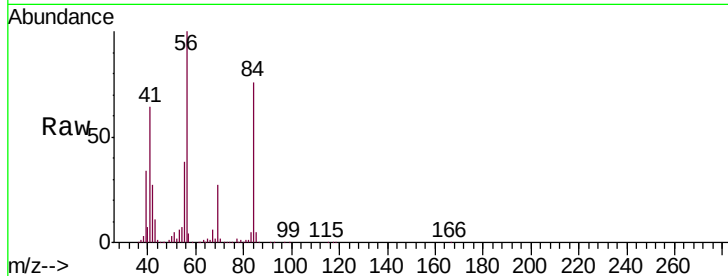




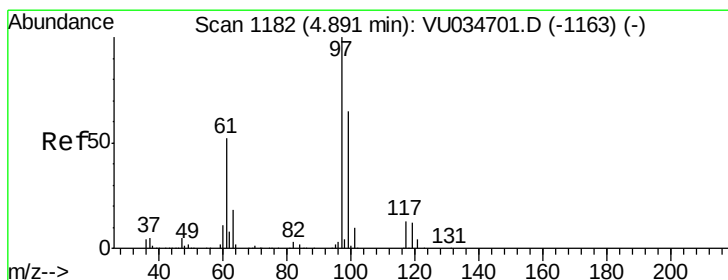
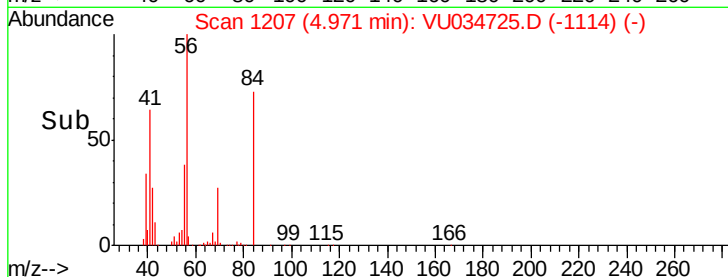
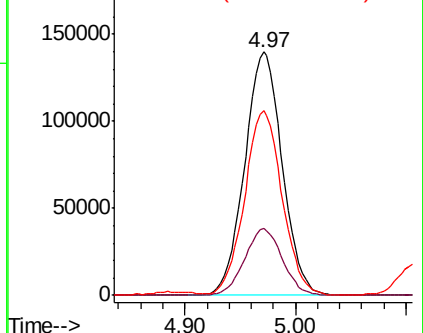
#29
Cyclohexane
Concen: 45.726 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

Tgt Ion: 56 Resp: 329405
Ion Ratio Lower Upper
56 100
69 27.5 21.7 32.5
84 75.4 58.8 88.2

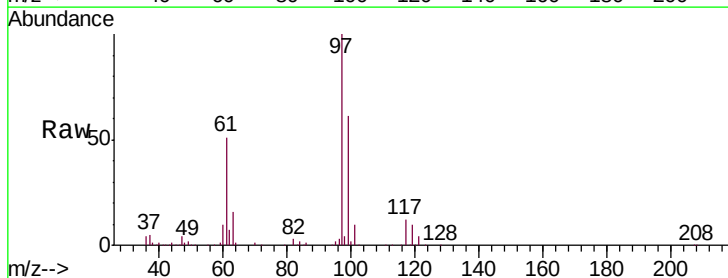


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

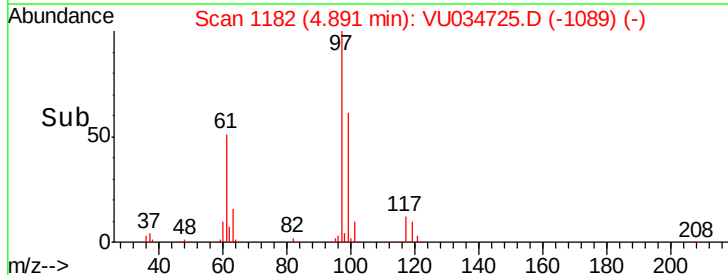
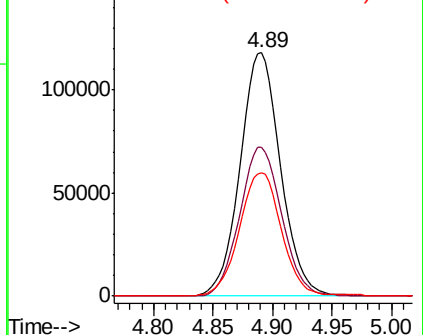


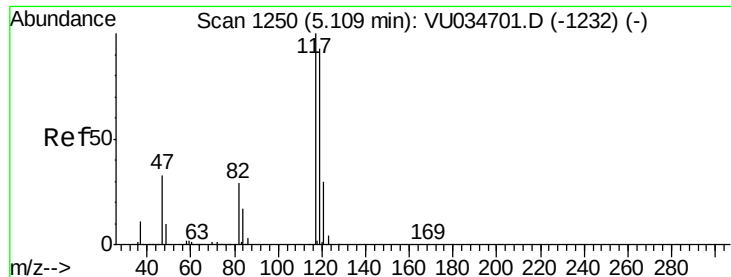
#30
1,1,1-Trichloroethane
Concen: 46.748 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

Tgt Ion: 97 Resp: 277699
Ion Ratio Lower Upper
97 100
99 63.1 51.8 77.8
61 52.7 43.4 65.0



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

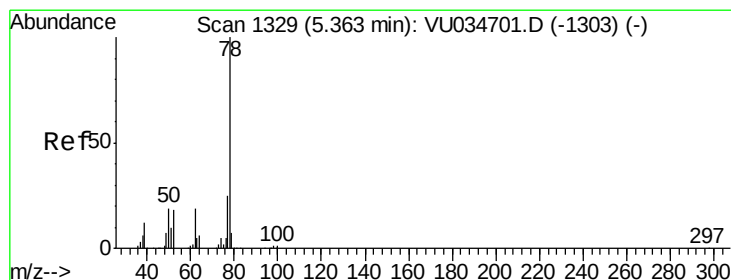
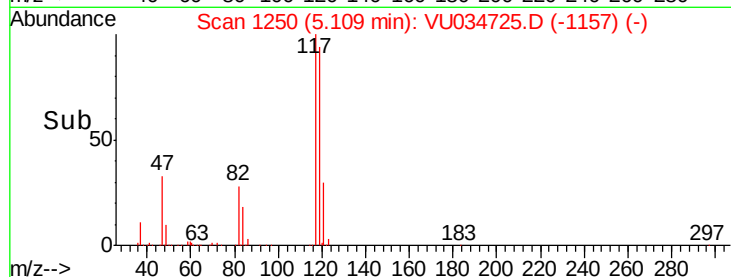
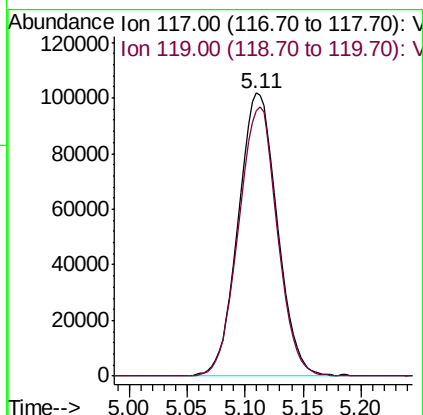
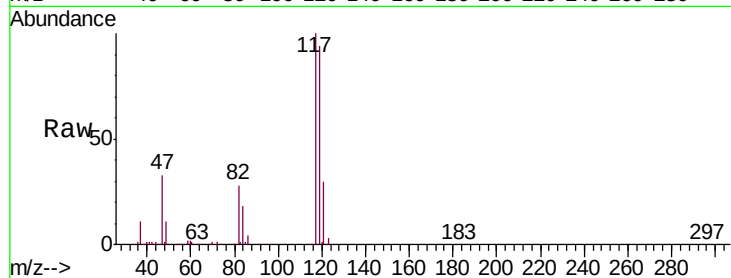




#31
Carbon tetrachloride
Concen: 47.083 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

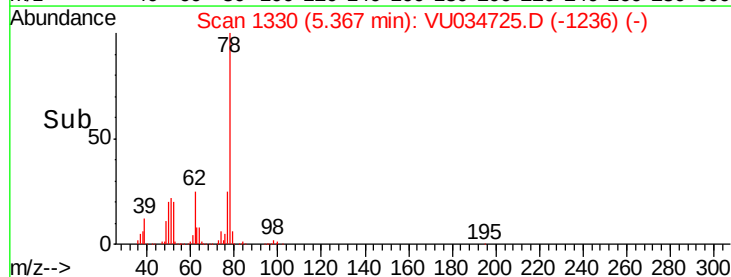
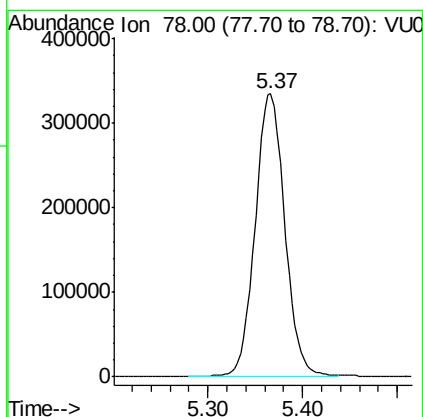
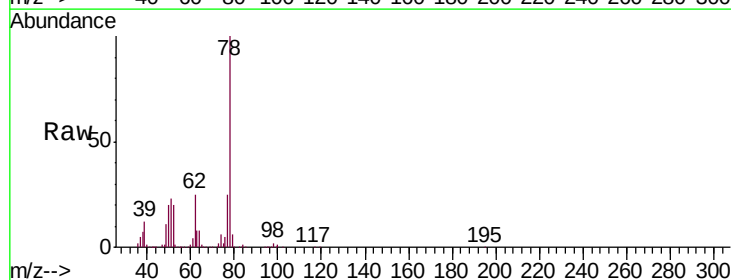
Instrument :
MSVOA_U
ClientSampleId :
VSTD05039

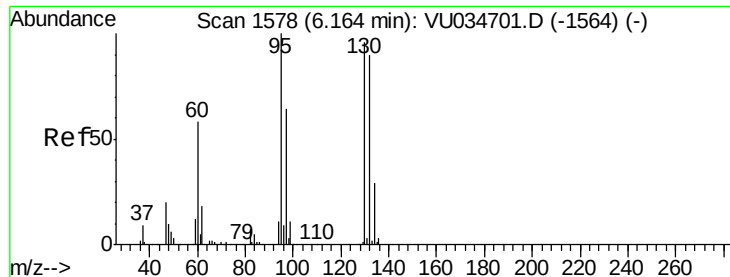
Tgt Ion:117 Resp: 238369
Ion Ratio Lower Upper
117 100
119 94.7 74.8 112.2



#33
Benzene
Concen: 48.211 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

Tgt Ion: 78 Resp: 729778





#34

Trichloroethene

Concen: 47.648 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

Tgt Ion: 95 Resp: 178130

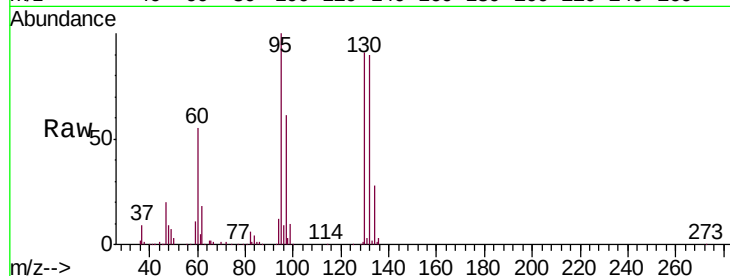
Ion Ratio Lower Upper

95 100

97 61.3 43.7 81.1

132 90.5 61.0 113.2

130 91.5 65.7 121.9

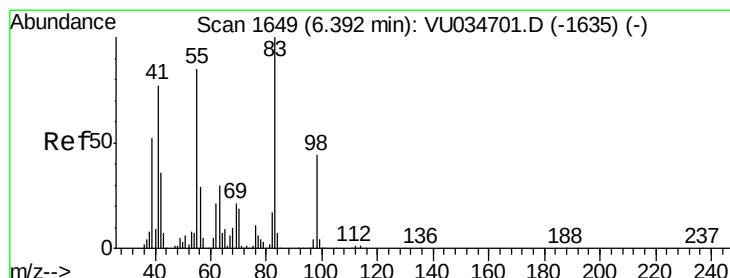
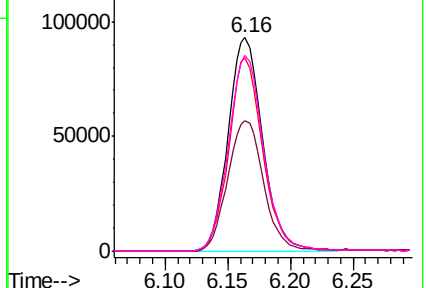
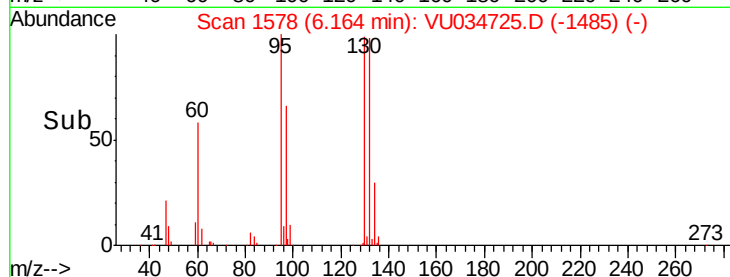


Abundance Ion 95.00 (94.70 to 95.70): VU034725.D (-1485) (-)

Ion 97.00 (96.70 to 97.70): VU034725.D (-1485) (-)

Ion 132.00 (131.70 to 132.70): VU034725.D (-1485) (-)

Ion 130.00 (129.70 to 130.70): VU034725.D (-1485) (-)



#35

Methylcyclohexane

Concen: 45.153 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

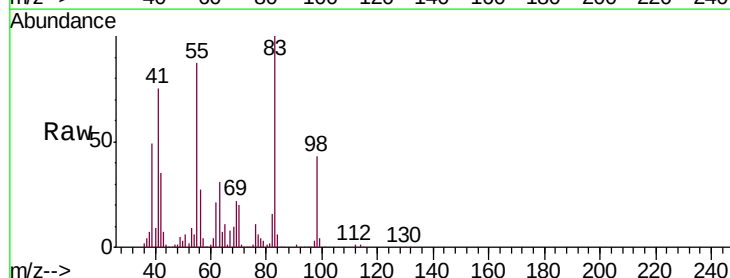
Tgt Ion: 83 Resp: 286455

Ion Ratio Lower Upper

83 100

55 87.0 71.6 107.4

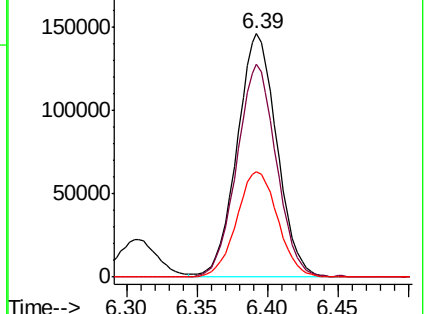
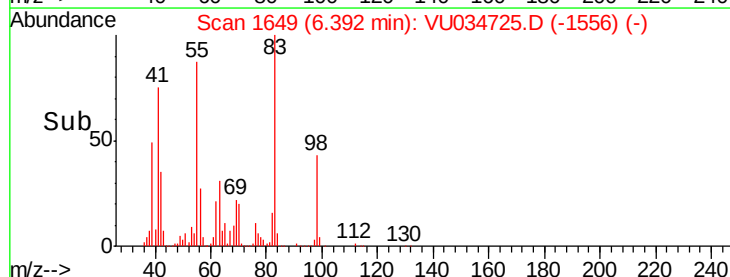
98 45.0 35.7 53.5

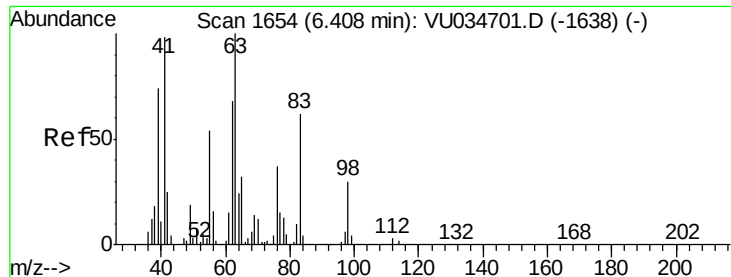


Abundance Ion 83.00 (82.70 to 83.70): VU034725.D (-1556) (-)

Ion 55.00 (54.70 to 55.70): VU034725.D (-1556) (-)

Ion 98.00 (97.70 to 98.70): VU034725.D (-1556) (-)

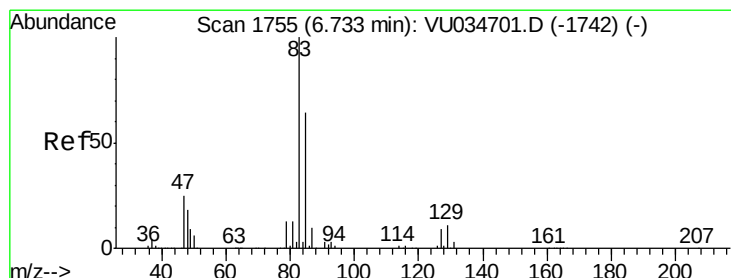
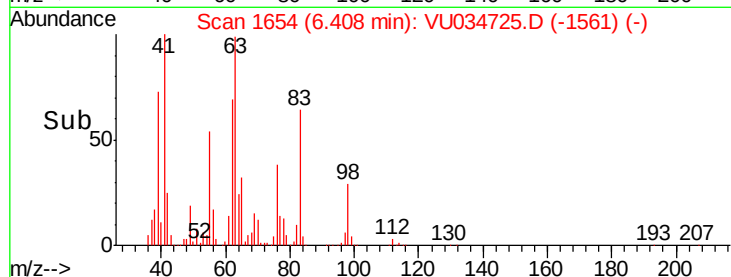
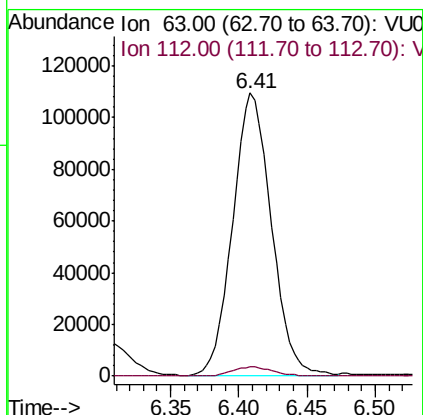
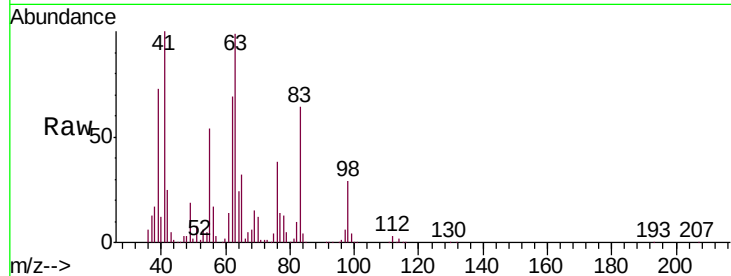




#37
 1,2-Dichloropropane
 Concen: 47.630 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

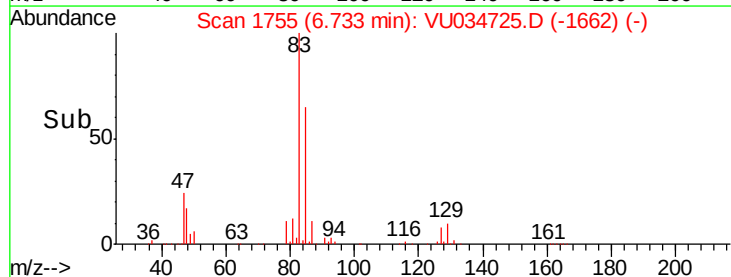
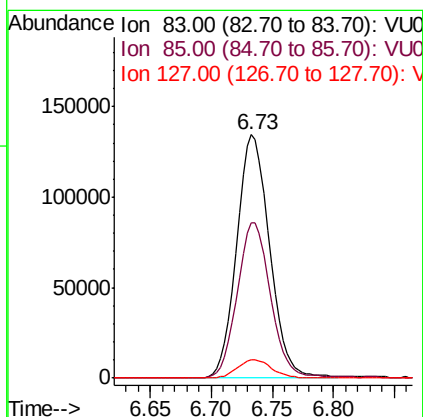
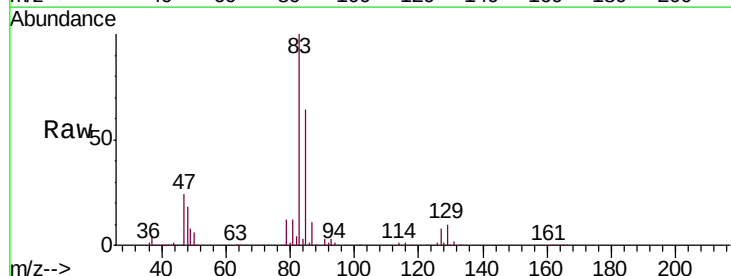
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

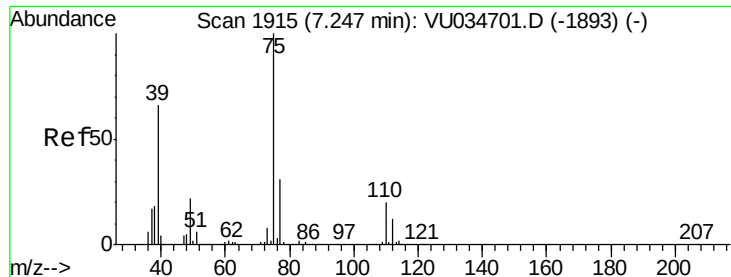
Tgt Ion: 63 Resp: 214682
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.4 3.6



#38
 Bromodichloromethane
 Concen: 45.784 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

Tgt Ion: 83 Resp: 250259
 Ion Ratio Lower Upper
 83 100
 85 63.8 45.5 84.5
 127 7.5 6.1 9.1

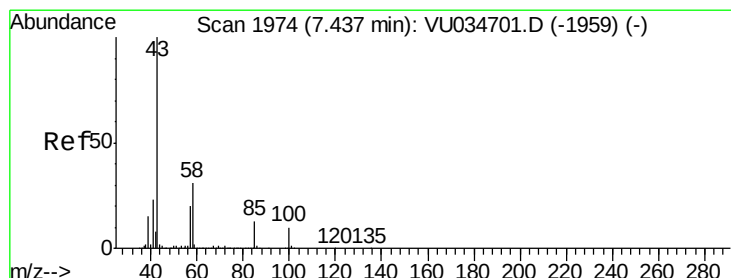
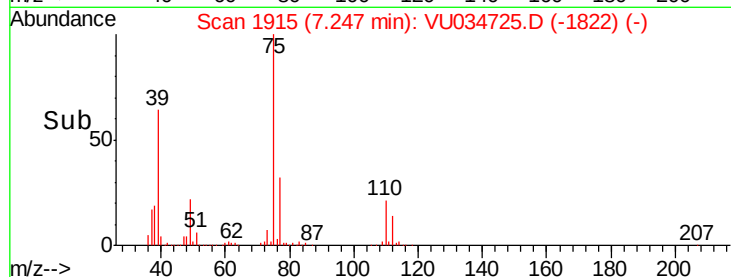
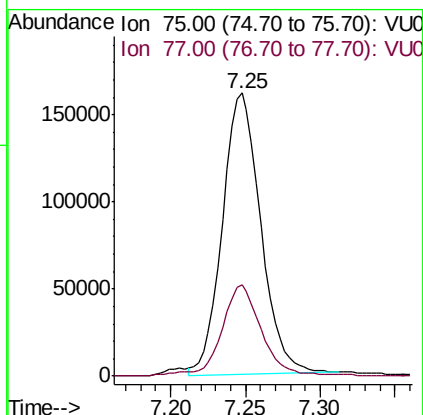
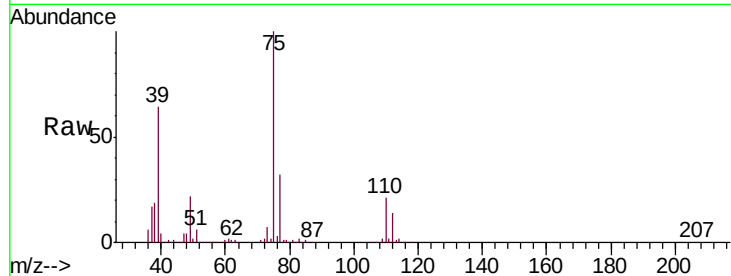




#39
 cis-1,3-Dichloropropene
 Concen: 42.345 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

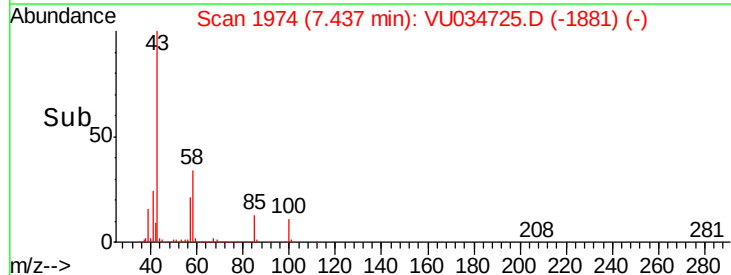
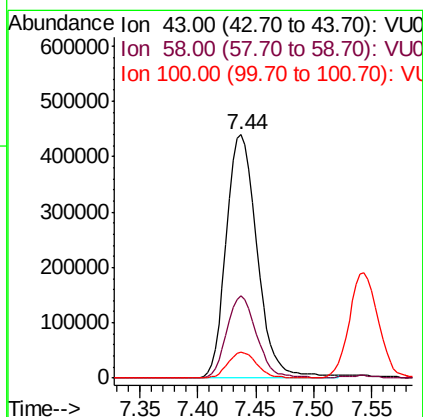
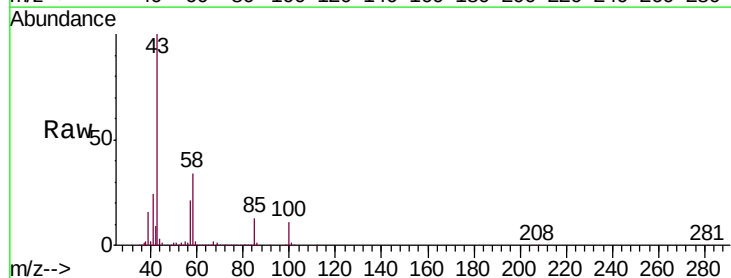
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

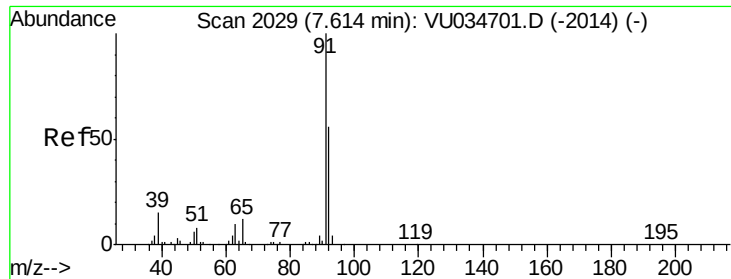
Tgt Ion: 75 Resp: 286780
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 94.280 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

Tgt Ion: 43 Resp: 811305
 Ion Ratio Lower Upper
 43 100
 58 32.8 25.2 37.8
 100 10.1 7.7 11.5





#42

Toluene

Concen: 48.114 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

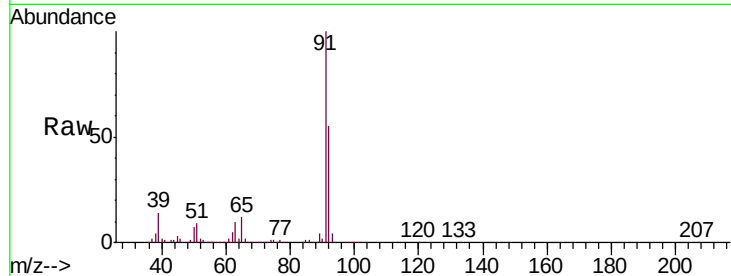
VSTD05039

Tgt Ion: 91 Resp: 787118

Ion Ratio Lower Upper

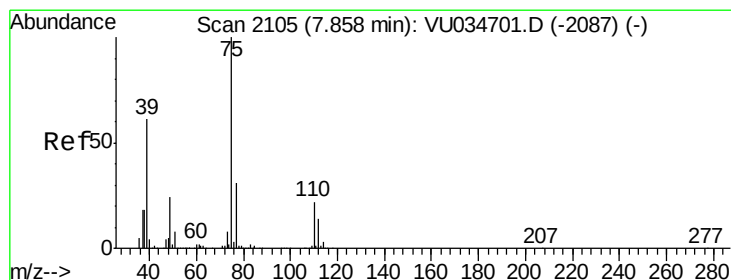
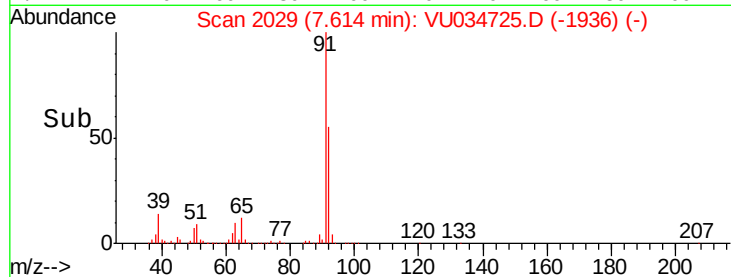
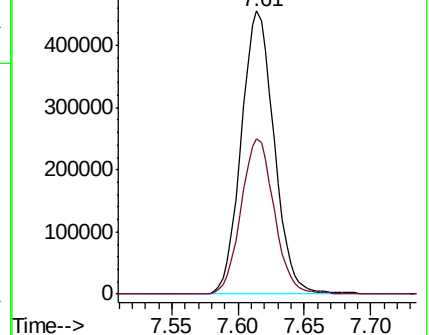
91 100

92 55.0 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034701.D (-2014) (-)

Ion 92.00 (91.70 to 92.70): VU034701.D (-2014) (-)



#44

trans-1,3-Dichloropropene

Concen: 45.267 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VU034725.D

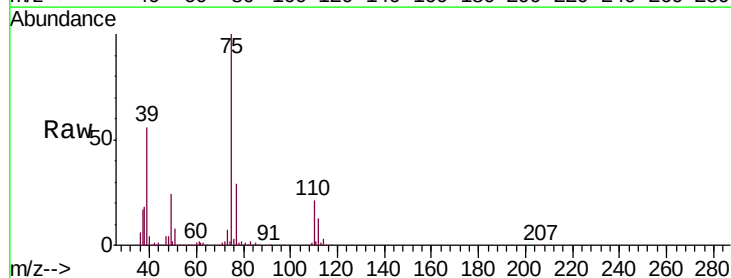
Acq: 21 Sep 2019 05:48

Tgt Ion: 75 Resp: 276371

Ion Ratio Lower Upper

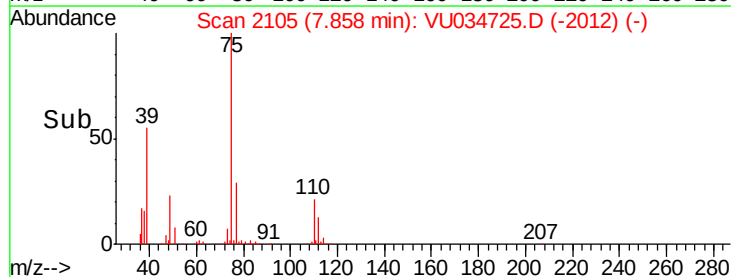
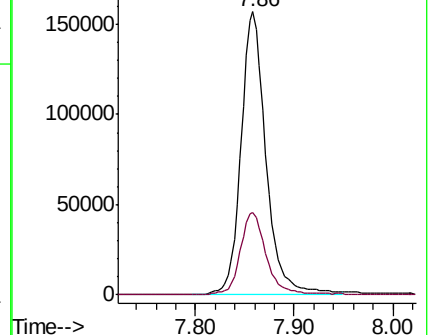
75 100

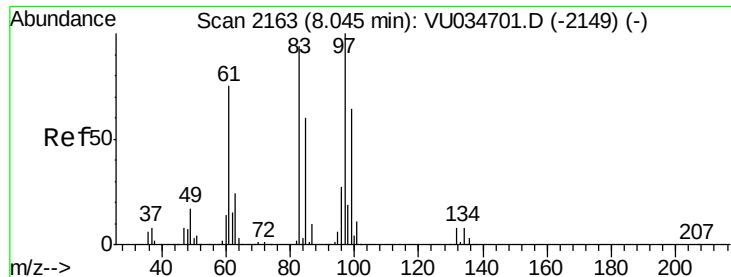
77 29.3 21.4 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU034701.D (-2087) (-)

Ion 77.00 (76.70 to 77.70): VU034701.D (-2087) (-)

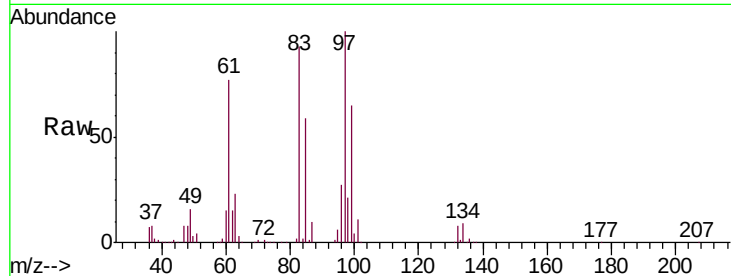




#45
 1,1,2-Trichloroethane
 Concen: 47.698 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tgt Ion:	97	Resp:	172210
Ion	Ratio	Lower	Upper
97	100		
99	64.6	43.6	81.0
83	93.2	66.9	124.3
85	59.5	43.3	80.3



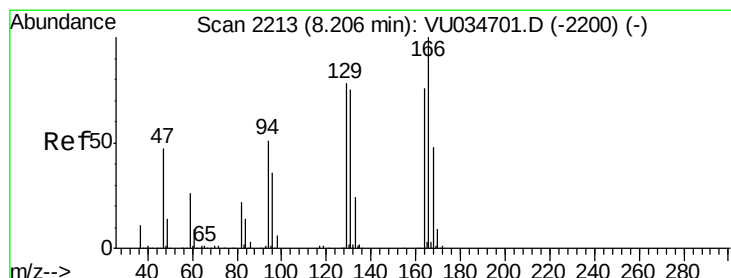
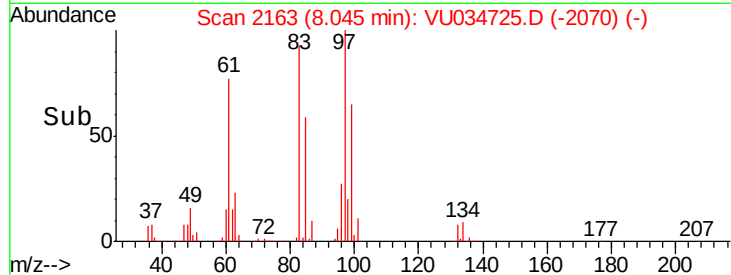
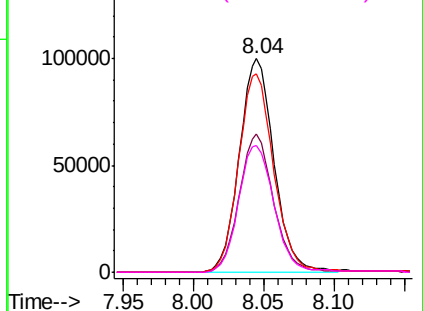
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

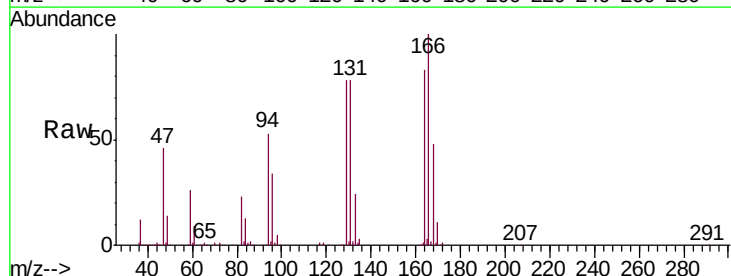
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 49.036 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

Tgt Ion:	164	Resp:	128947
Ion	Ratio	Lower	Upper
164	100		
129	94.9	71.9	133.5
131	94.2	66.3	123.1
166	121.1	93.4	173.6



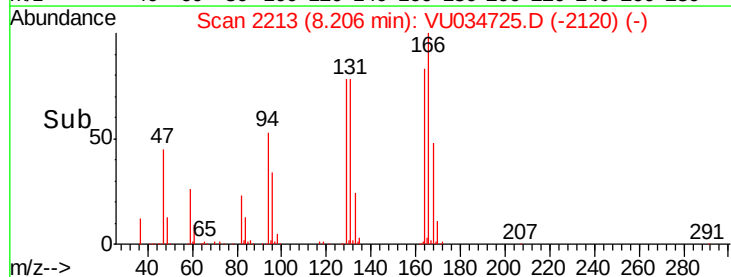
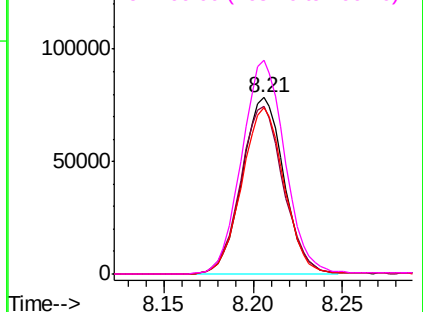
Abundance

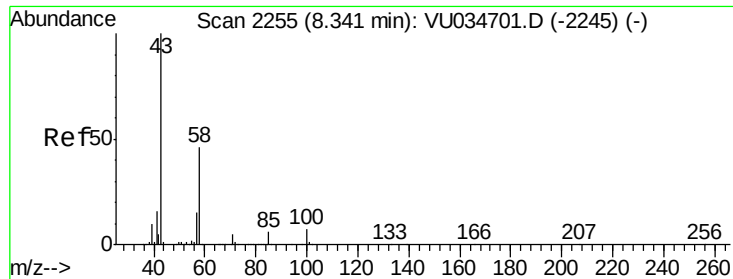
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

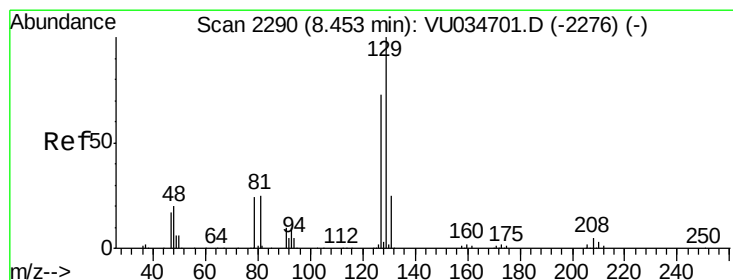
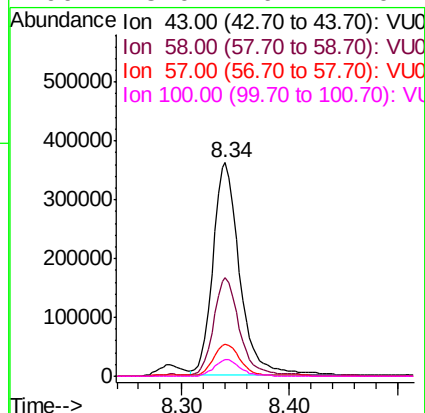
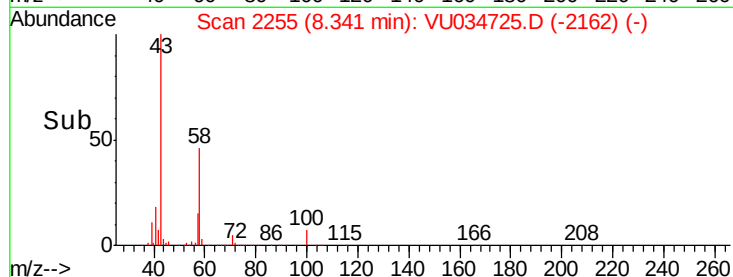
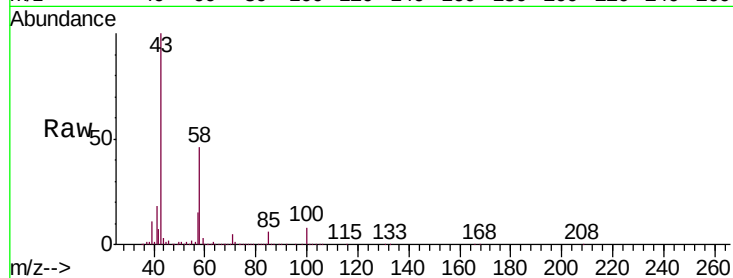




#48
2-Hexanone
Concen: 91.780 ug/L
RT: 8.34 min Scan# 2255
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

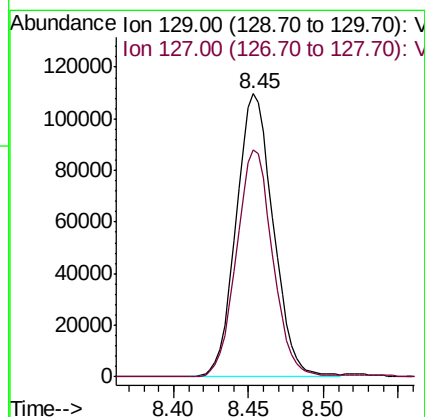
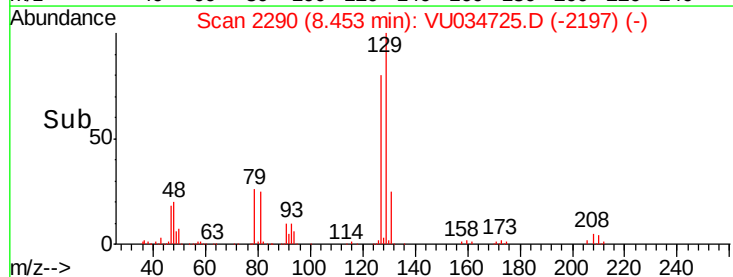
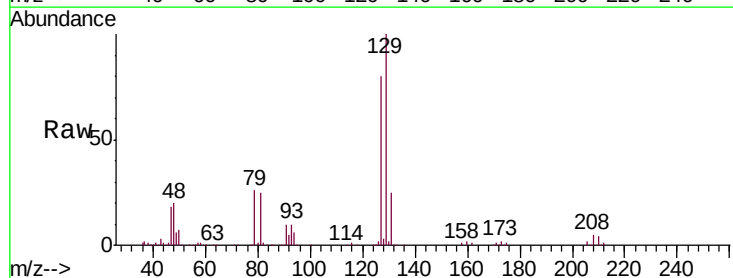
Instrument :
MSVOA_U
ClientSampled :
VSTD05039

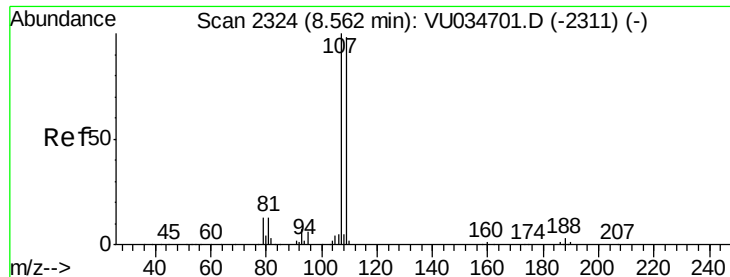
Tgt Ion: 43 Resp: 616844
Ion Ratio Lower Upper
43 100
58 44.0 35.3 52.9
57 14.6 12.1 18.1
100 8.0 6.2 9.4



#49
Dibromochloromethane
Concen: 47.122 ug/L
RT: 8.45 min Scan# 2290
Delta R.T. 0.00 min
Lab File: VU034725.D
Acq: 21 Sep 2019 05:48

Tgt Ion: 129 Resp: 189631
Ion Ratio Lower Upper
129 100
127 80.4 55.5 103.1





#50

1,2-Dibromoethane

Concen: 48.620 ug/L

RT: 8.56 min Scan# 2324

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

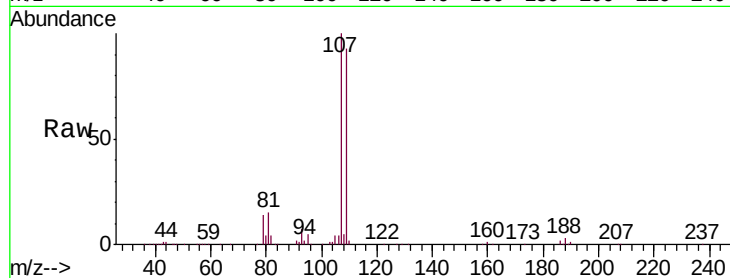
Tgt Ion:107 Resp: 189186

Ion Ratio Lower Upper

107 100

109 93.2 65.5 121.6

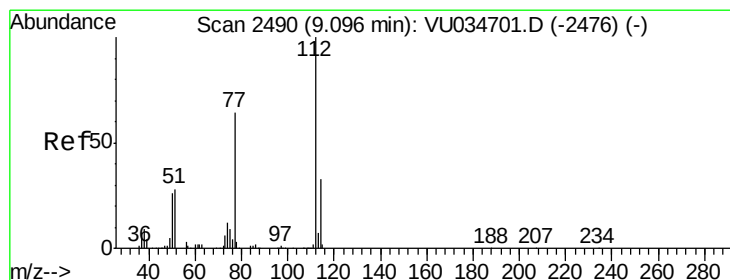
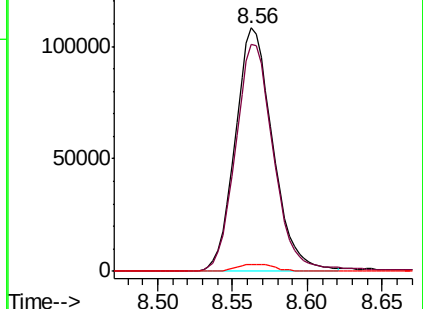
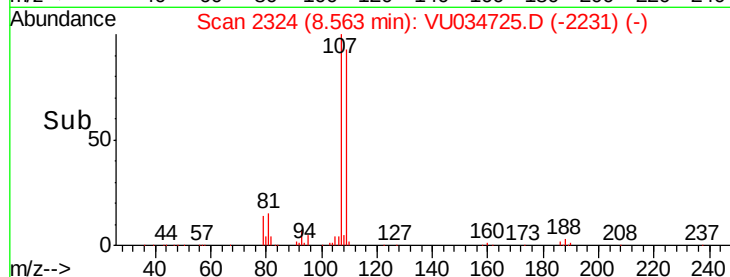
188 3.0 2.7 4.1



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: 47.639 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

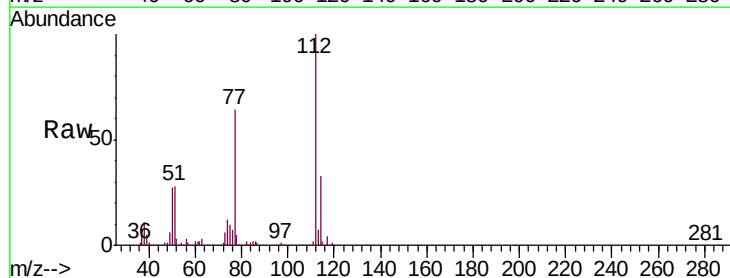
Tgt Ion:112 Resp: 473757

Ion Ratio Lower Upper

112 100

114 32.8 22.8 42.4

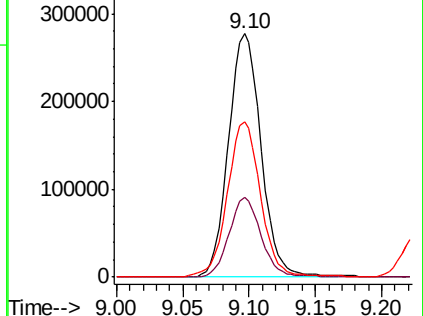
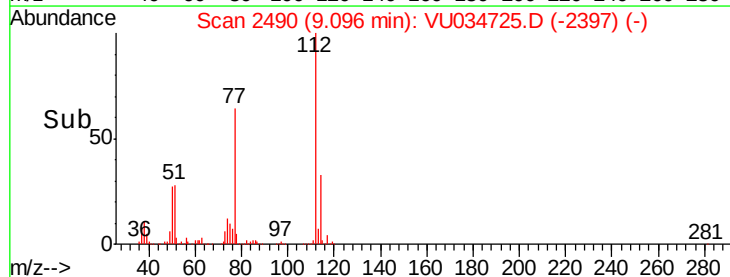
77 63.8 51.5 77.3

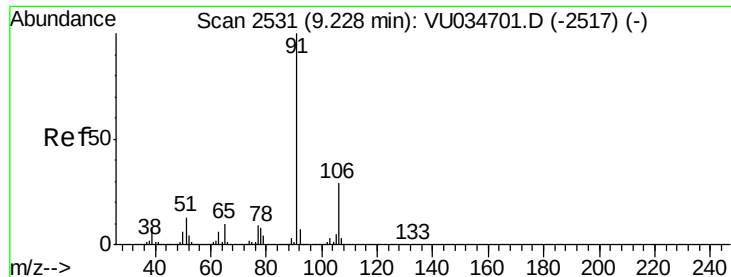


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VUO





#52

Ethylbenzene

Concen: 47.094 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

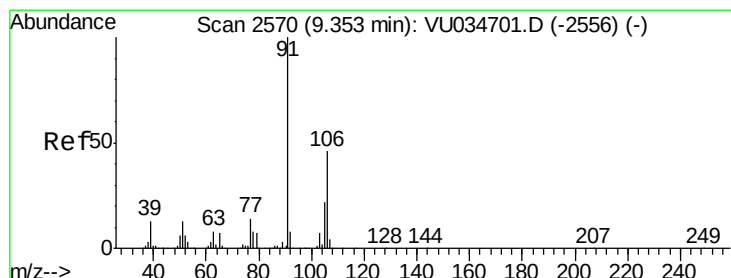
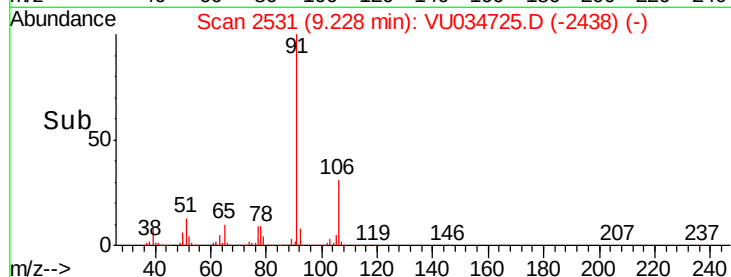
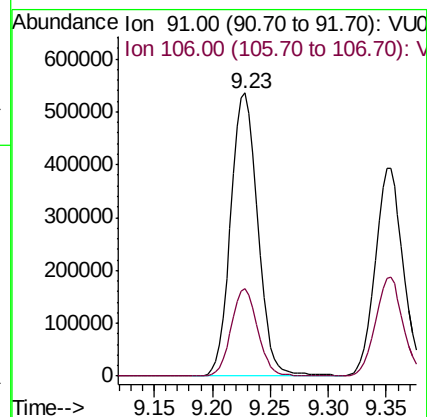
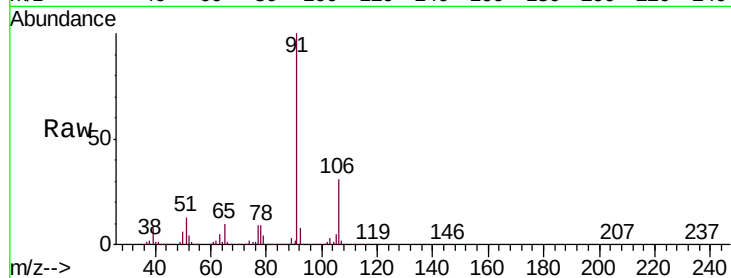
VSTD05039

Tgt Ion: 91 Resp: 867557

Ion Ratio Lower Upper

91 100

106 30.8 20.6 38.4



#53

m,p-Xylene

Concen: 47.582 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034725.D

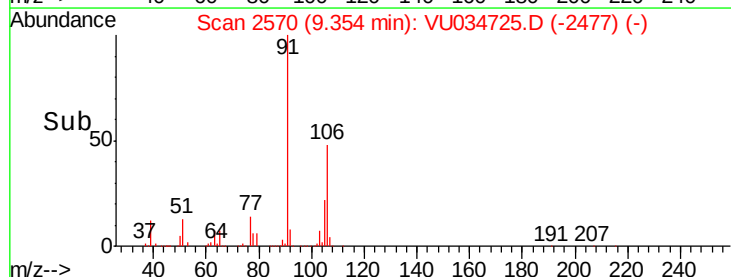
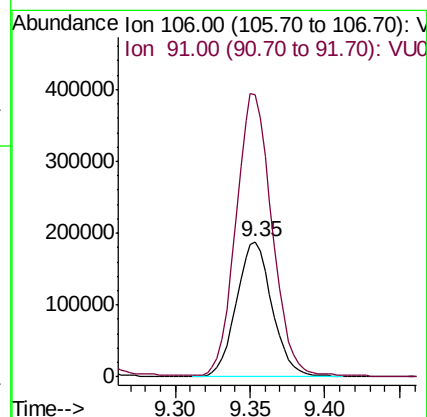
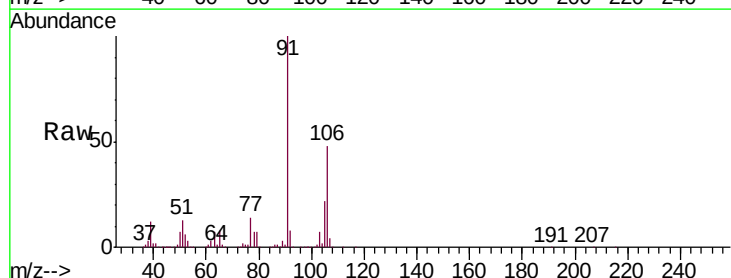
Acq: 21 Sep 2019 05:48

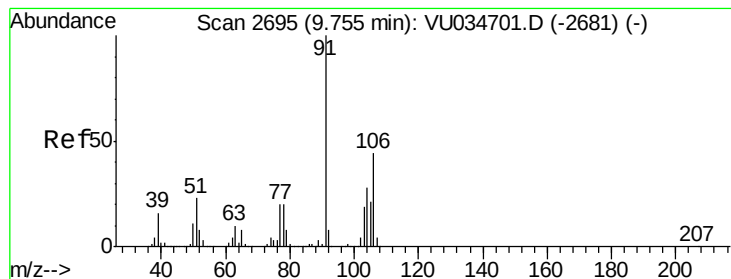
Tgt Ion: 106 Resp: 310473

Ion Ratio Lower Upper

106 100

91 208.9 146.9 272.7





#54

o-xylene

Concen: 48.233 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

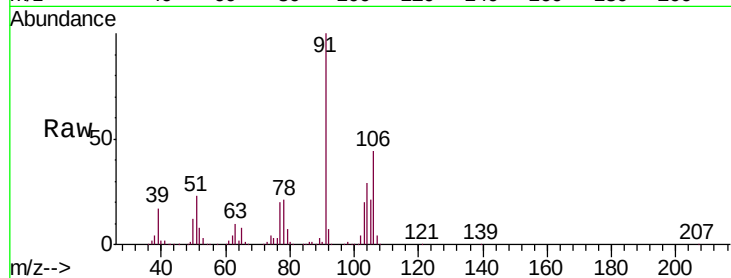
VSTD05039

Tgt Ion:106 Resp: 311281

Ion Ratio Lower Upper

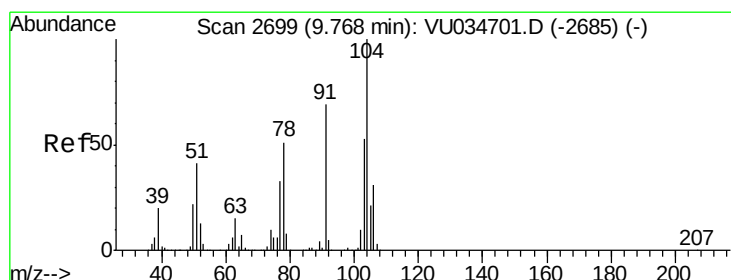
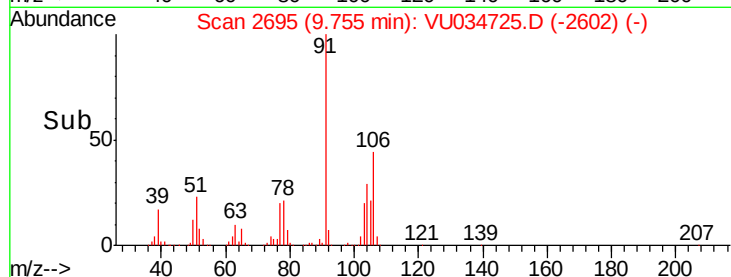
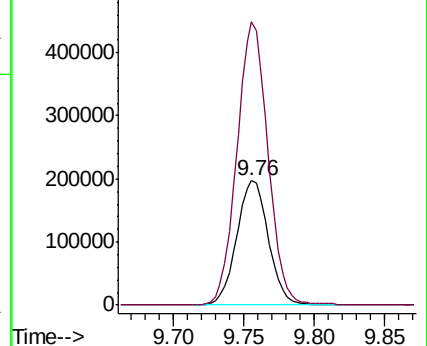
106 100

91 227.1 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.320 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. 0.00 min

Lab File: VU034725.D

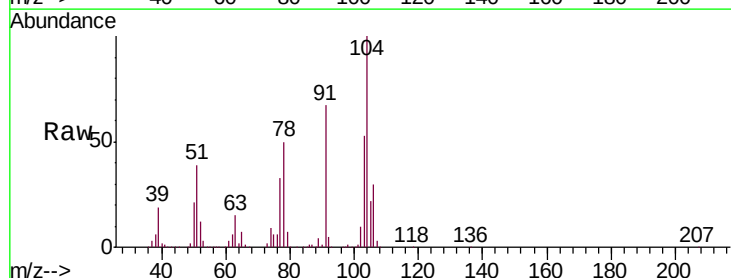
Acq: 21 Sep 2019 05:48

Tgt Ion:104 Resp: 527852

Ion Ratio Lower Upper

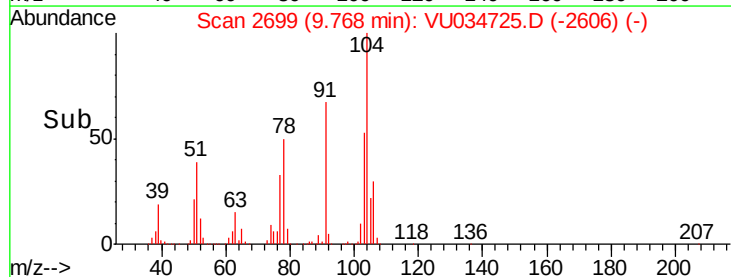
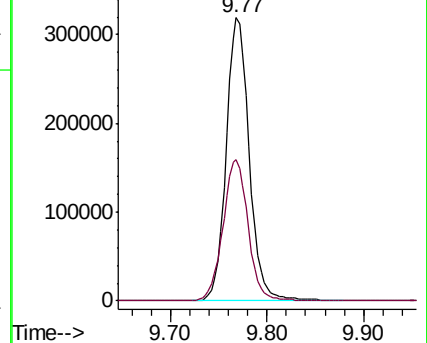
104 100

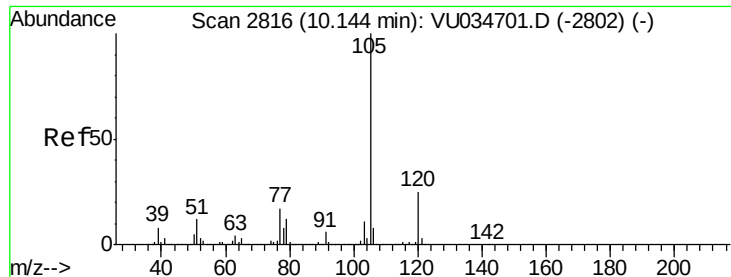
78 49.8 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.050 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

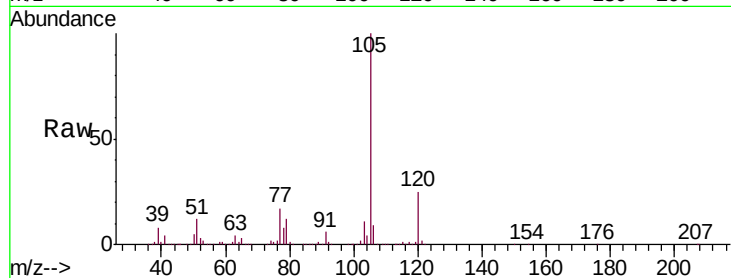
Tgt Ion: 105 Resp: 818735

Ion Ratio Lower Upper

105 100

120 25.3 20.4 30.6

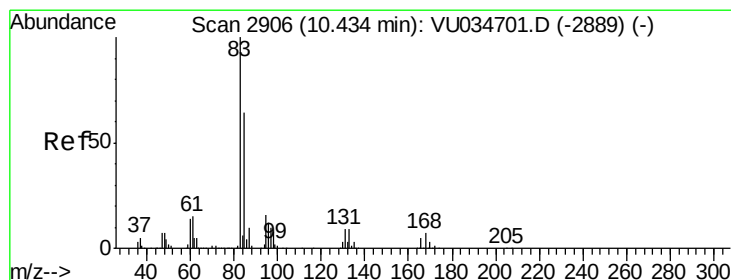
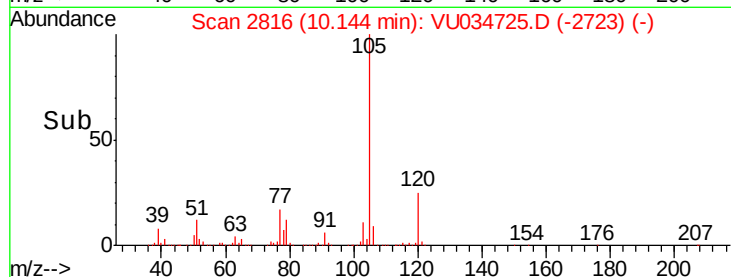
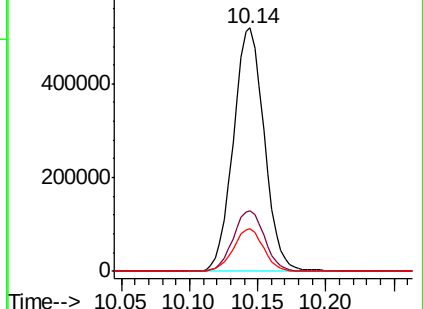
77 17.2 14.2 21.4



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: 46.715 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

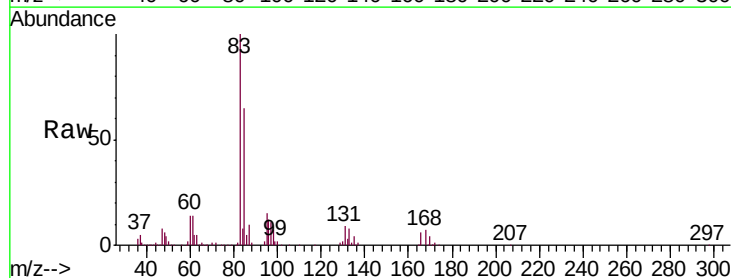
Tgt Ion: 83 Resp: 323941

Ion Ratio Lower Upper

83 100

85 64.7 44.6 82.8

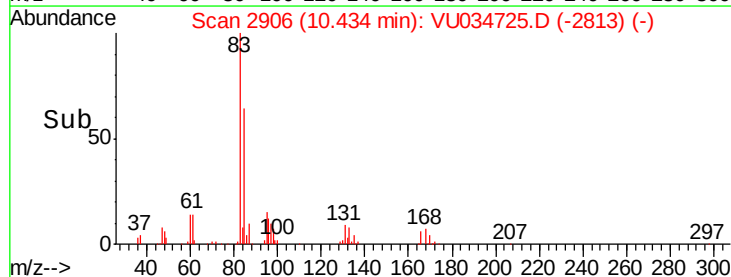
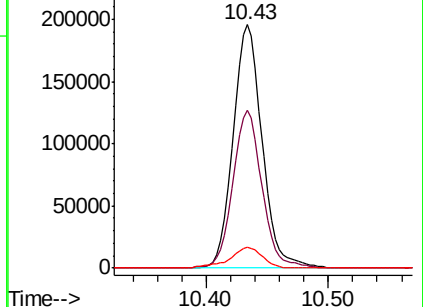
131 8.5 6.6 10.0

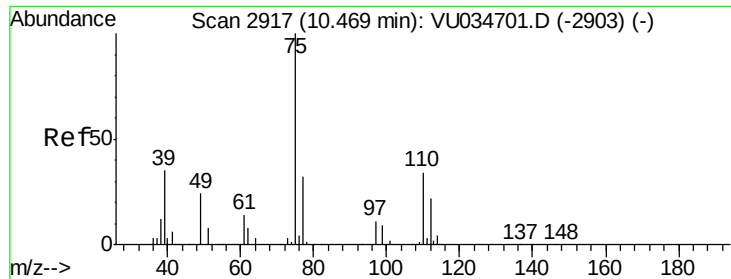


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 45.862 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

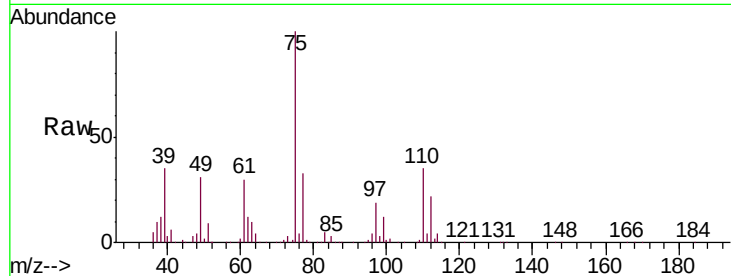
VSTD05039

Tgt Ion: 75 Resp: 258182

Ion Ratio Lower Upper

75 100

77 31.9 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VU034725.D (-2295) (-)

Ion 77.00 (76.70 to 77.70): VU034725.D (-2295) (-)

10.47

150000

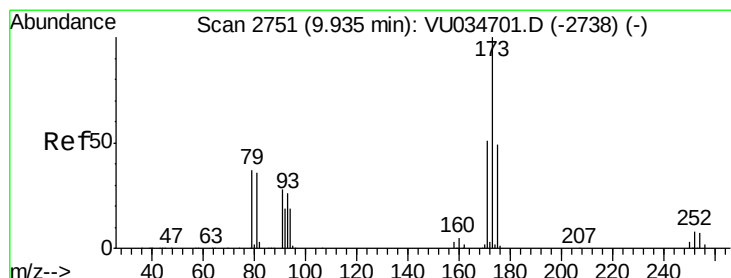
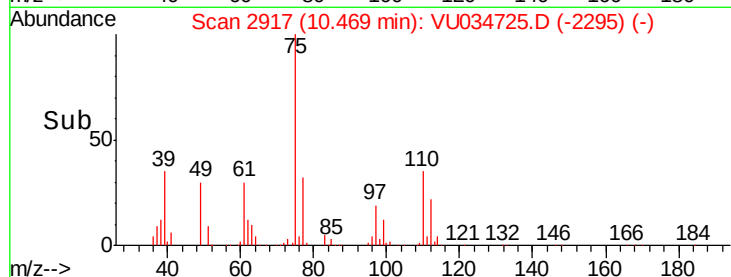
100000

50000

0

10.40 10.50 10.60

Time-->



#61

Bromoform

Concen: 47.051 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

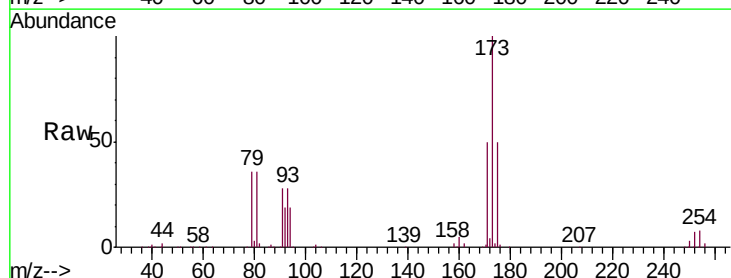
Tgt Ion: 173 Resp: 134761

Ion Ratio Lower Upper

173 100

175 48.4 38.8 58.2

254 7.3 5.3 7.9



Abundance Ion 173.00 (172.70 to 173.70): VU034725.D (-2658) (-)

Ion 175.00 (174.70 to 175.70): VU034725.D (-2658) (-)

Ion 254.00 (253.70 to 254.70): VU034725.D (-2658) (-)

9.94

100000

80000

60000

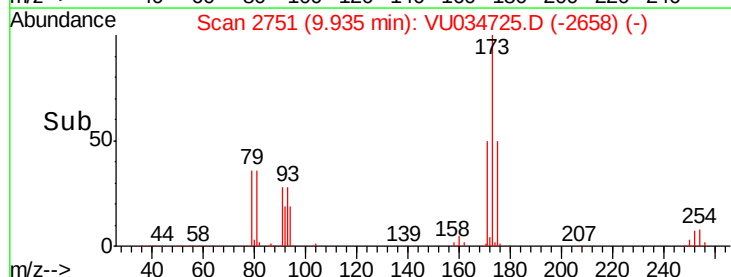
40000

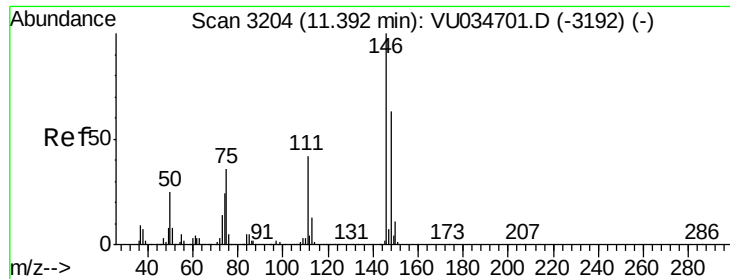
20000

0

9.90 9.95 10.00

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.592 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

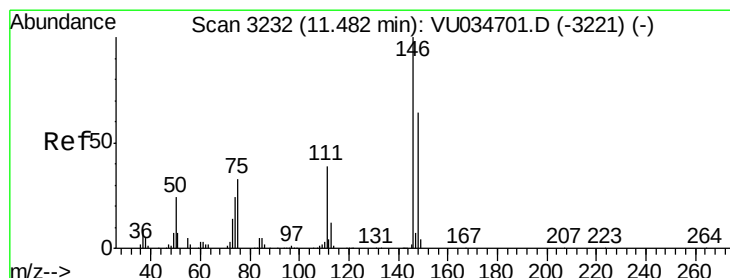
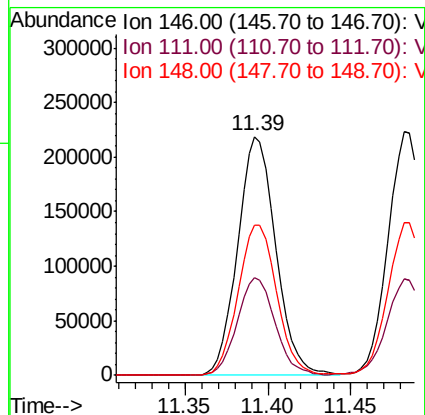
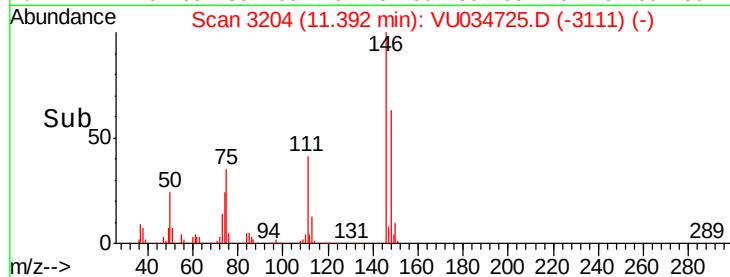
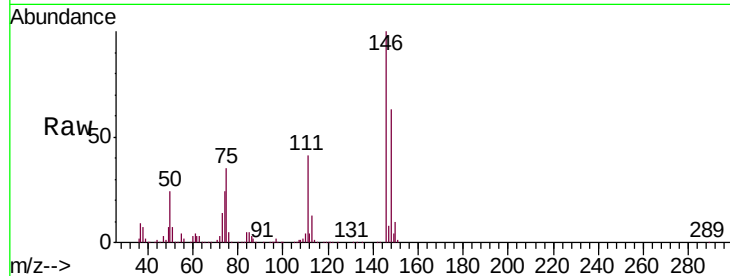
Tgt Ion:146 Resp: 350058

Ion Ratio Lower Upper

146 100

111 40.9 30.4 56.5

148 62.9 46.1 85.7



#63

1,4-Dichlorobenzene

Concen: 47.382 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

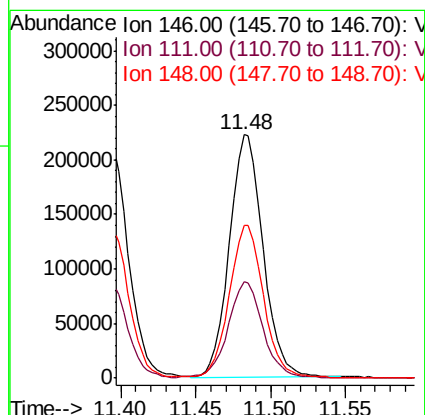
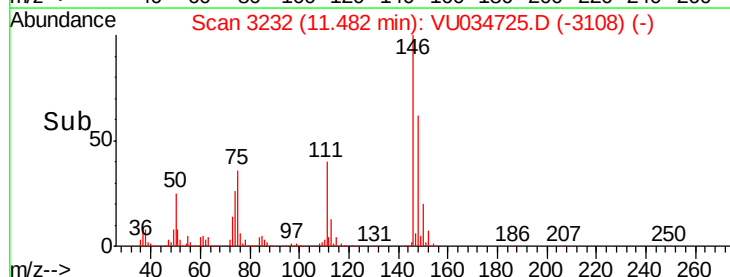
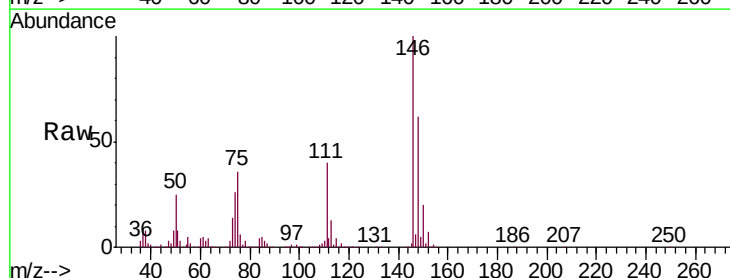
Tgt Ion:146 Resp: 347719

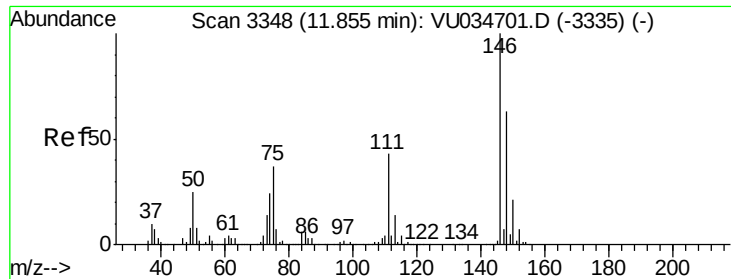
Ion Ratio Lower Upper

146 100

111 39.6 29.5 54.9

148 62.5 44.4 82.4

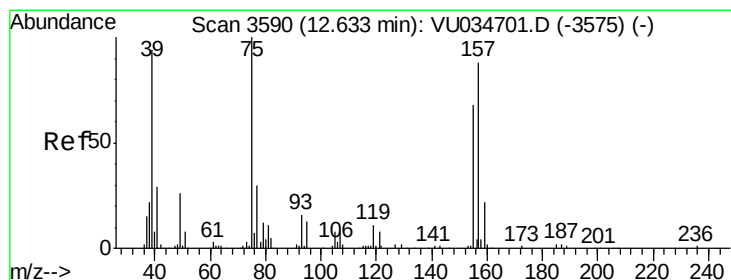
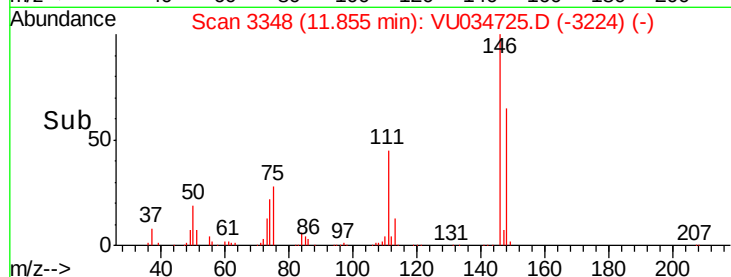
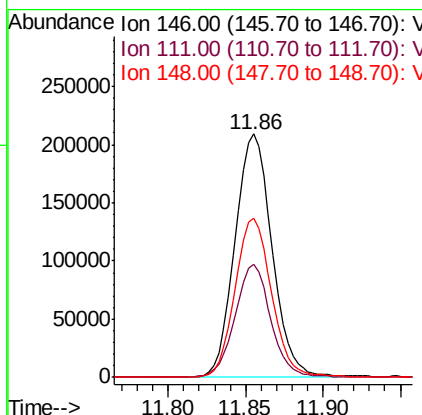
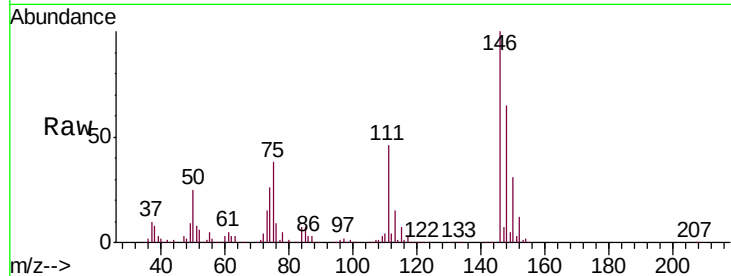




#65
 1,2-Dichlorobenzene
 Concen: 47.854 ug/L
 RT: 11.86 min Scan# 3348
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

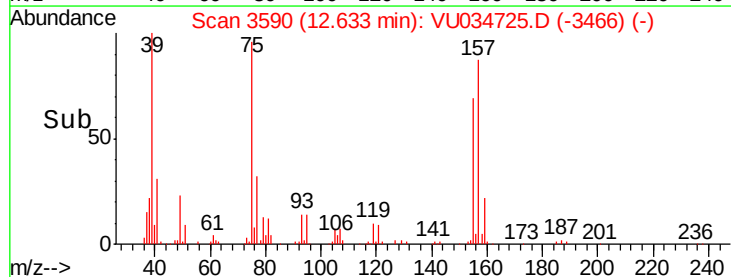
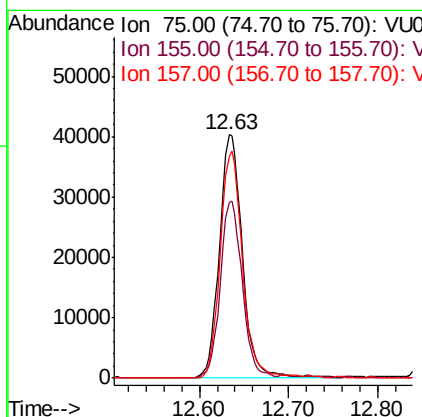
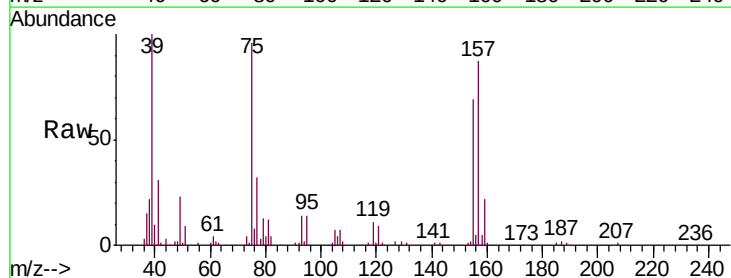
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

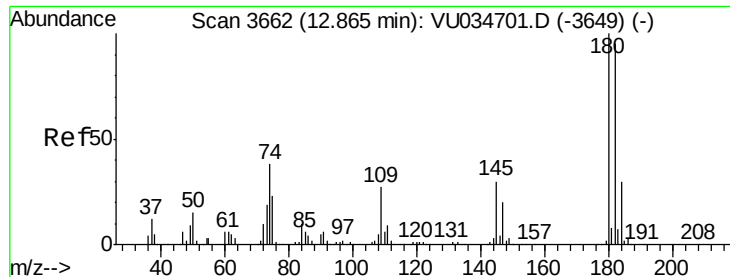
Tgt Ion:146 Resp: 348329
 Ion Ratio Lower Upper
 146 100
 111 46.3 35.2 52.8
 148 65.4 53.0 79.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.608 ug/L
 RT: 12.63 min Scan# 3590
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

Tgt Ion: 75 Resp: 72111
 Ion Ratio Lower Upper
 75 100
 155 72.4 54.7 82.1
 157 91.0 69.9 104.9

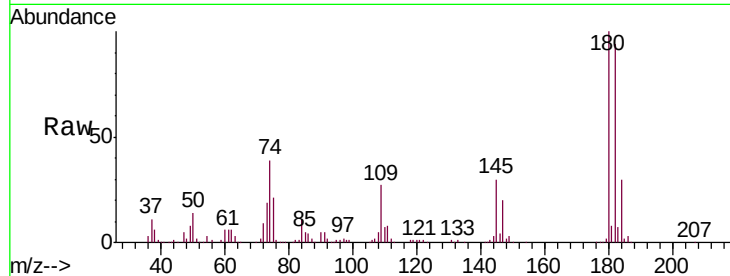




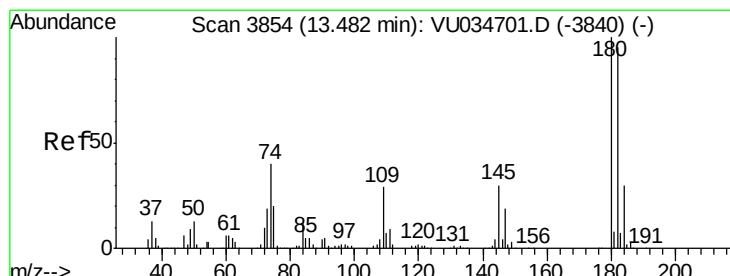
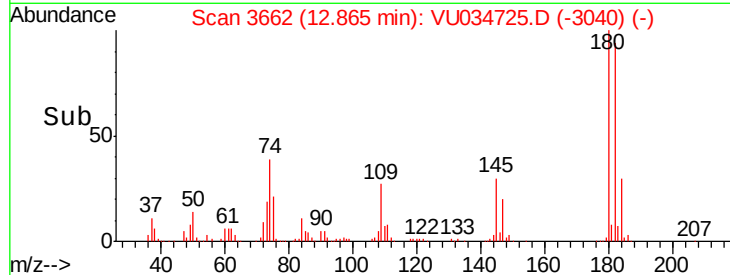
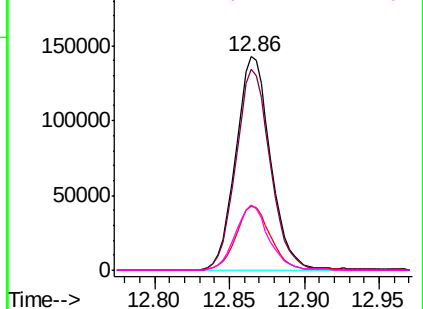
#67
 1,3,5-Trichlorobenzene
 Concen: 47.937 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05039

Tgt Ion:	180	Resp:	231385
Ion	Ratio	Lower	Upper
180	100		
182	92.6	79.2	118.8
184	29.7	24.6	36.8
145	29.3	24.9	37.3

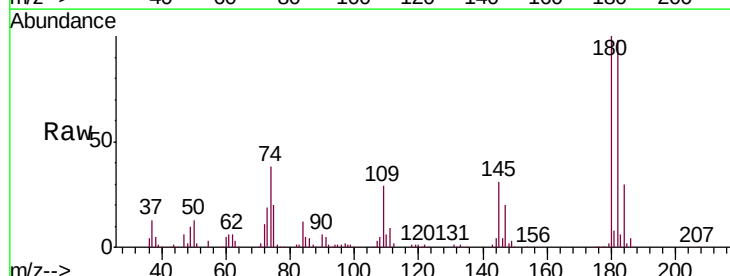


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

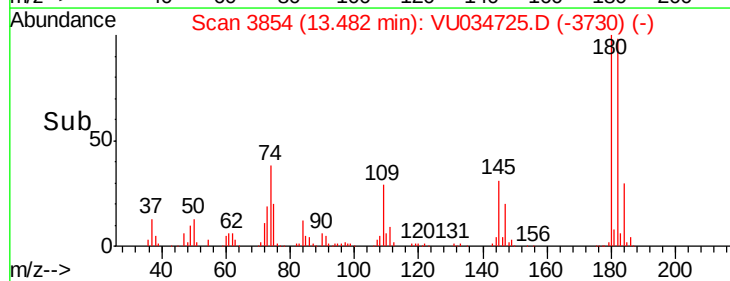
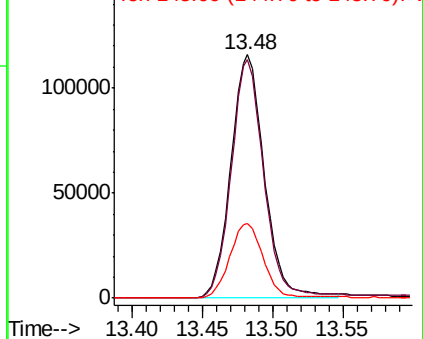


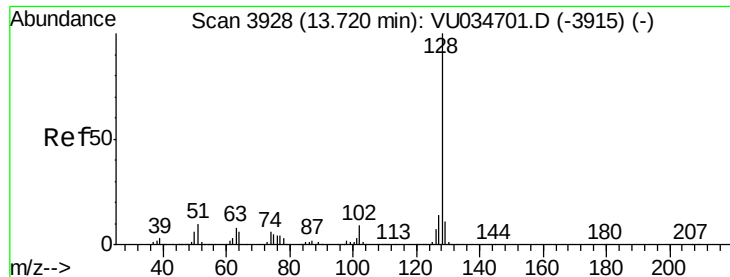
#68
 1,2,4-trichlorobenzene
 Concen: 50.914 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. 0.00 min
 Lab File: VU034725.D
 Acq: 21 Sep 2019 05:48

Tgt Ion:	180	Resp:	193256
Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.7	113.5
145	30.3	25.2	37.8



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





#69

Naphthalene

Concen: 50.338 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05039

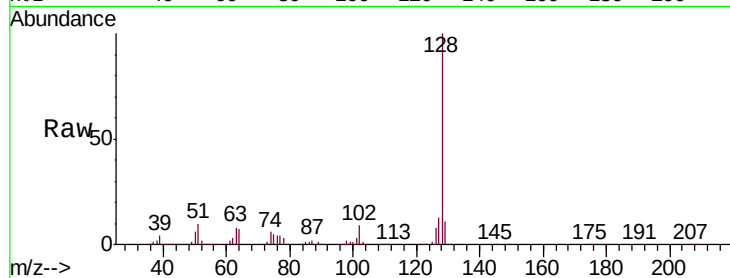
Tgt Ion:128 Resp: 661459

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

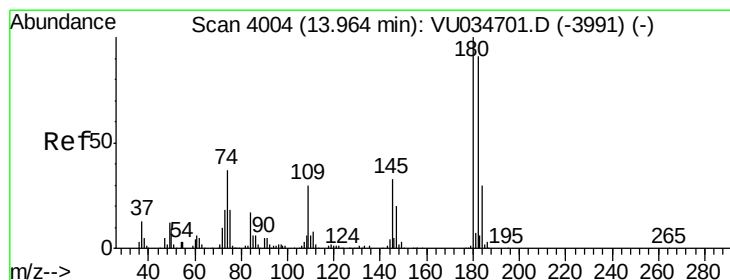
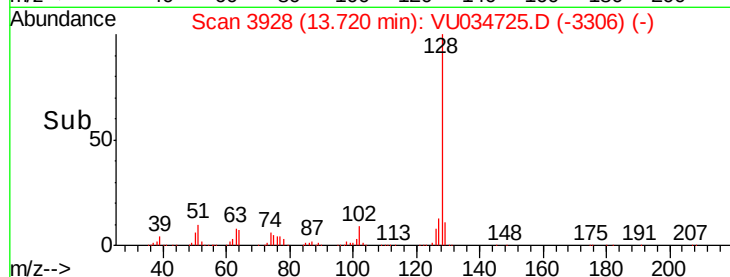
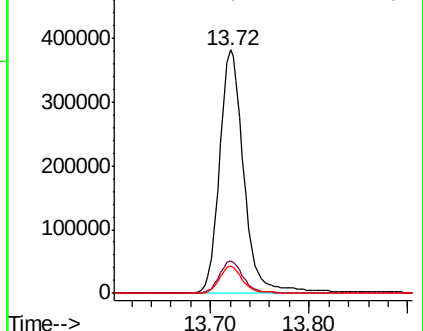
129 10.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.601 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. 0.00 min

Lab File: VU034725.D

Acq: 21 Sep 2019 05:48

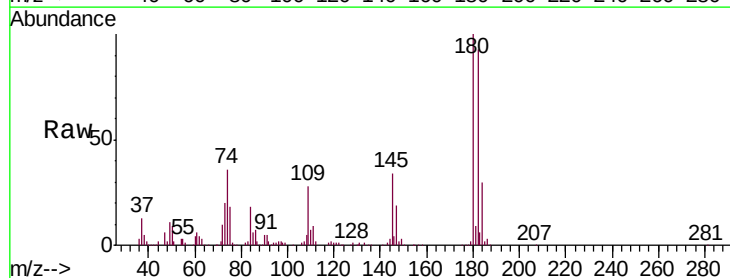
Tgt Ion:180 Resp: 189819

Ion Ratio Lower Upper

180 100

182 97.6 79.2 118.8

145 33.7 26.0 39.0



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

