

Data File : VU034551.D
Acq On : 15 Sep 2019 08:49
Operator : JC/SP
Sample : VSTD00504
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

Quant Time: Sep 16 02:07:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091519WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Sep 16 02:04:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	203406	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	195644	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	92912	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	66139	3.89	ug/L	0.00
7) Chloroethane-d5	1.67	69	50729	3.62	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	106231	3.31	ug/L	0.00
20) 2-Butanone-d5	4.17	46	215579	50.45	ug/L	0.00
24) Chloroform-d	4.62	84	129083	4.34	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	66612	4.19	ug/L	0.00
32) Benzene-d6	5.32	84	262995	4.83	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	89989	5.12	ug/L	0.00
41) Toluene-d8	7.54	98	245125	5.15	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	37780	5.59	ug/L	0.00
46) 2-Hexanone-d5	8.30	63	176944	62.92	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	71533	4.95	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	83608	4.85	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	40792	1.949 ug/L	100
3) Chloromethane	1.32	50	65709	3.043 ug/L	100
5) Vinyl chloride	1.40	62	57032	2.563 ug/L	100
6) Bromomethane	1.62	94	31099	2.974 ug/L	100
8) Chloroethane	1.69	64	34645	2.477 ug/L	100
9) Trichlorofluoromethane	1.87	101	60746	2.420 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	30184	2.139 ug/L	100
12) 1,1-Dichloroethene	2.27	96	37927	2.692 ug/L	100
13) Acetone	2.32	43	126903	39.559 ug/L	100
14) Carbon disulfide	2.46	76	99039	2.042 ug/L	100
15) Methyl Acetate	2.60	43	29549	3.434 ug/L	100
16) Methylene chloride	2.68	84	53316	3.114 ug/L	100
17) Methyl tert-butyl Ether	2.99	73	154639	3.976 ug/L	100
18) trans-1,2-Dichloroethene	2.96	96	44276	2.876 ug/L	100
19) 1,1-Dichloroethane	3.42	63	119246	3.816 ug/L	100
21) 2-Butanone	4.26	43	220507	46.928 ug/L	100
22) cis-1,2-Dichloroethene	4.20	96	67003	4.016 ug/L	100
23) Bromochloromethane	4.53	128	27908	3.743 ug/L	100
25) Chloroform	4.65	83	121843	3.728 ug/L	100
27) 1,2-Dichloroethane	5.39	62	73381	3.819 ug/L	100
29) 1,1,1-Trichloroethane	4.89	97	87332	3.818 ug/L	100
30) Cyclohexane	4.96	56	60944	2.767 ug/L	100
31) Carbon tetrachloride	5.11	117	67687	3.401 ug/L	100
33) Benzene	5.36	78	251413	4.237 ug/L	100
34) Trichloroethene	6.16	95	61925	4.026 ug/L	100
35) Methylcyclohexane	6.39	83	57770	2.655 ug/L	100
37) 1,2-Dichloropropane	6.41	63	73544	4.447 ug/L	100
38) Bromodichloromethane	6.74	83	90562	4.460 ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	115856	5.193 ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	561943	54.311 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	267104	4.462	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	90943	5.026	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	50883	4.543	ug/L	100
47) Tetrachloroethene	8.21	164	37626	3.255	ug/L	100
48) 2-Hexanone	8.35	43	388685	54.164	ug/L	100
49) Dibromochloromethane	8.46	129	63476	4.761	ug/L	100
50) 1,2-Dibromoethane	8.57	107	47353	4.456	ug/L	100
51) Chlorobenzene	9.10	112	173745	4.389	ug/L	100
52) Ethylbenzene	9.23	91	300139	4.702	ug/L	100
53) m,p-Xylene	9.35	106	111562	4.702	ug/L	100
54) o-Xylene	9.76	106	112660	4.979	ug/L	100
55) Styrene	9.77	104	198166	5.098	ug/L	100
56) Isopropylbenzene	10.14	105	294101	4.906	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.43	83	71972	4.813	ug/L	100
59) 1,2,3-Trichloropropane	10.47	75	48658	4.593	ug/L	100
61) Bromoform	9.94	173	32720	4.665	ug/L	100
62) 1,3-Dichlorobenzene	11.39	146	135135	4.688	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	136263	4.568	ug/L	100
65) 1,2-Dichlorobenzene	11.85	146	132232	4.751	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	12515	5.518	ug/L	100
67) 1,3,5-Trichlorobenzene	12.86	180	94240	4.261	ug/L	100
68) 1,2,4-trichlorobenzene	13.48	180	79557	4.745	ug/L	100
69) Naphthalene	13.72	128	170906	6.100	ug/L	100
70) 1,2,3-Trichlorobenzene	13.96	180	74733	4.642	ug/L	100

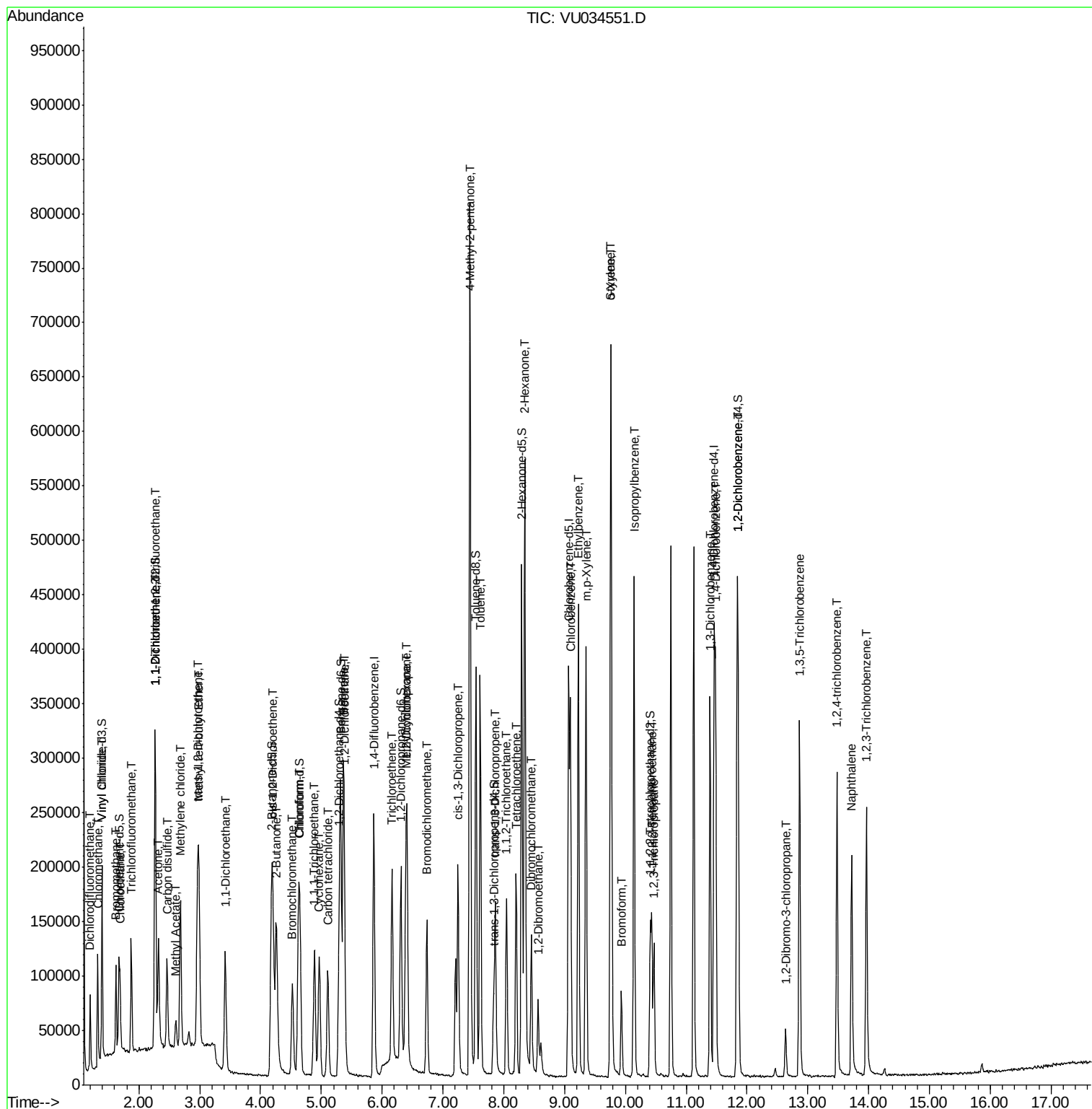
(#) = qualifier out of range (m) = manual integration (+) = signals summed

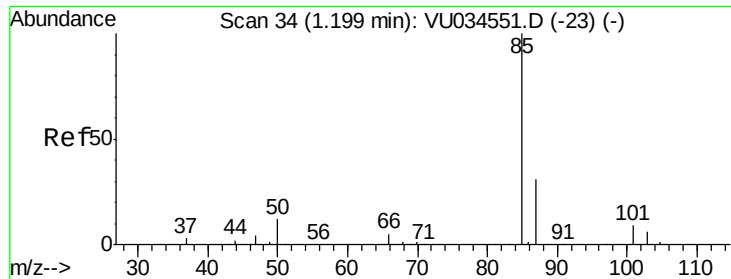
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#2

Dichlorodifluoromethane

Concen: 1.949 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

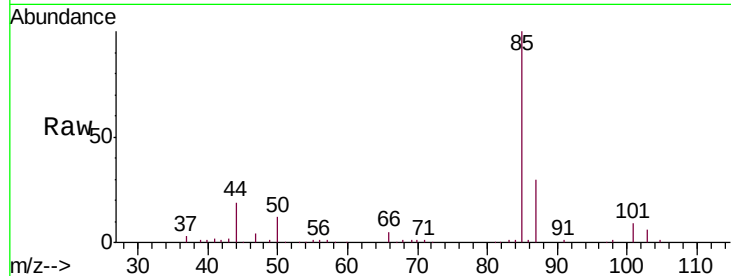
VSTD00504

Tgt Ion: 85 Resp: 40792

Ion Ratio Lower Upper

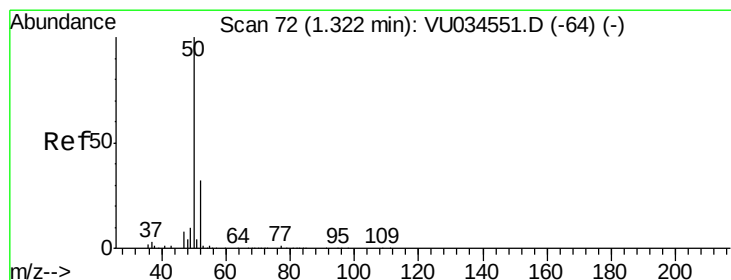
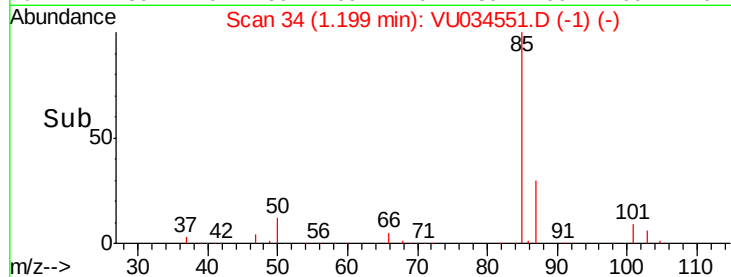
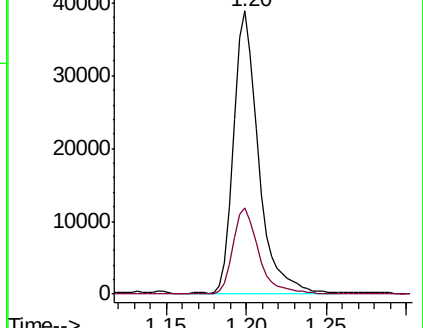
85 100

87 31.8 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU034551.D (-23) (-)

Ion 87.00 (86.70 to 87.70): VU034551.D (-23) (-)



#3

Chloromethane

Concen: 3.043 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034551.D

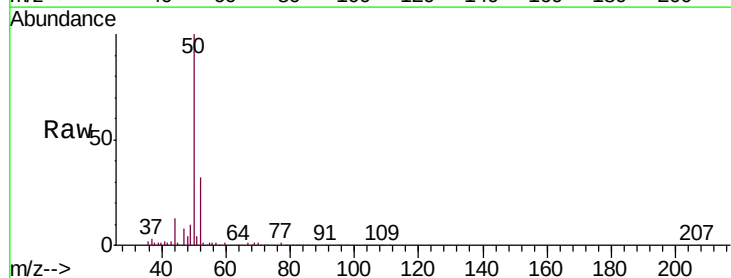
Acq: 15 Sep 2019 08:49

Tgt Ion: 50 Resp: 65709

Ion Ratio Lower Upper

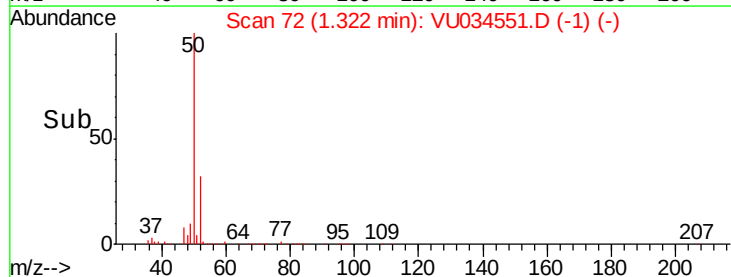
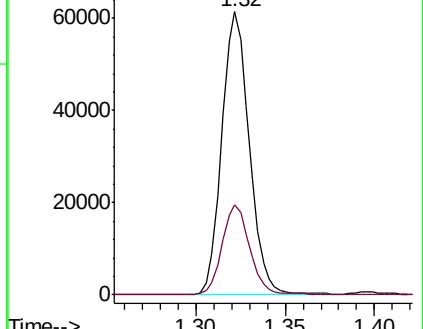
50 100

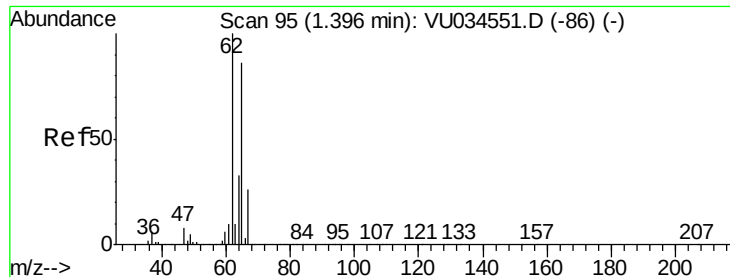
52 32.0 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU034551.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU034551.D (-64) (-)





#5

Vinyl chloride

Concen: 2.563 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

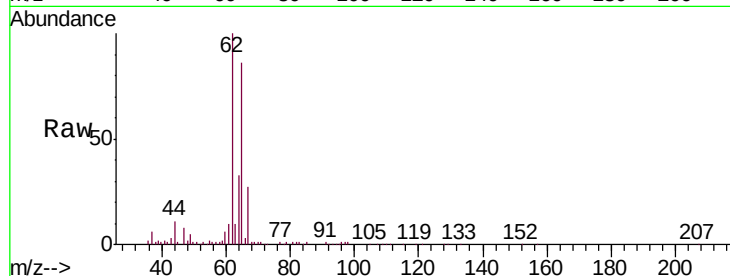
VSTD00504

Tgt Ion: 62 Resp: 57032

Ion Ratio Lower Upper

62 100

64 32.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU034551.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU034551.D (-86) (-)

1.40

60000

50000

40000

30000

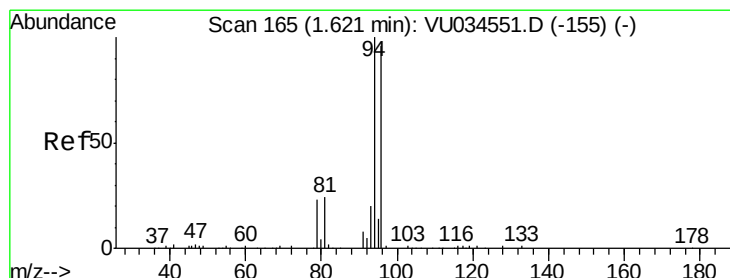
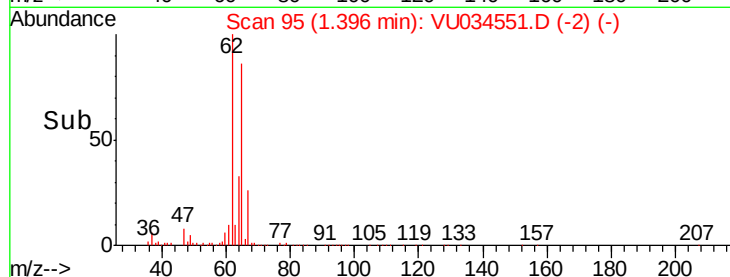
20000

10000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 2.974 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU034551.D

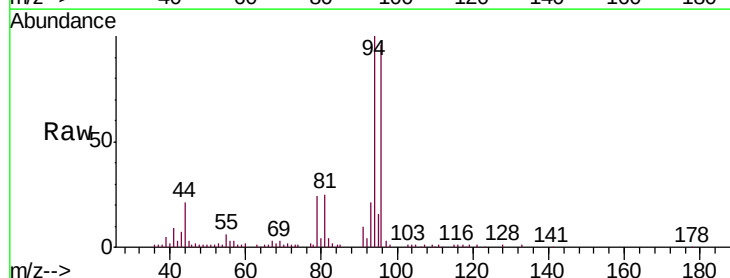
Acq: 15 Sep 2019 08:49

Tgt Ion: 94 Resp: 31099

Ion Ratio Lower Upper

94 100

96 96.1 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU034551.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU034551.D (-155) (-)

1.62

30000

25000

20000

15000

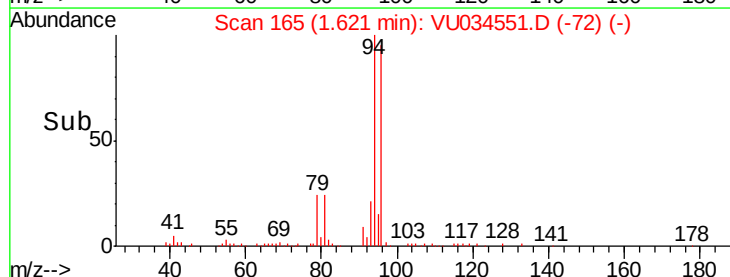
10000

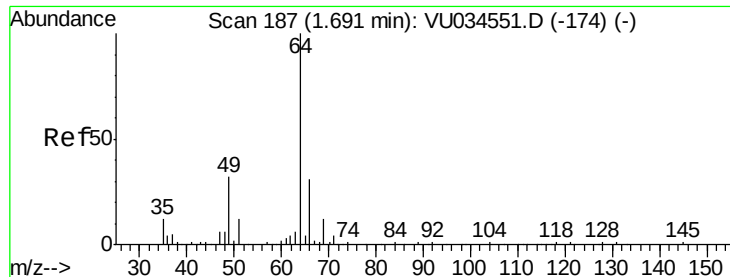
5000

0

1.60 1.65

Time-->





#8

Chloroethane

Concen: 2.477 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

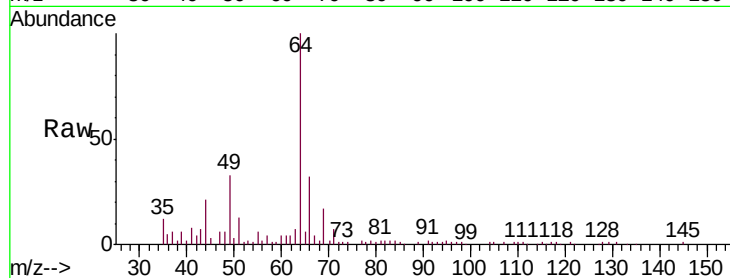
VSTD00504

Tgt Ion: 64 Resp: 34645

Ion Ratio Lower Upper

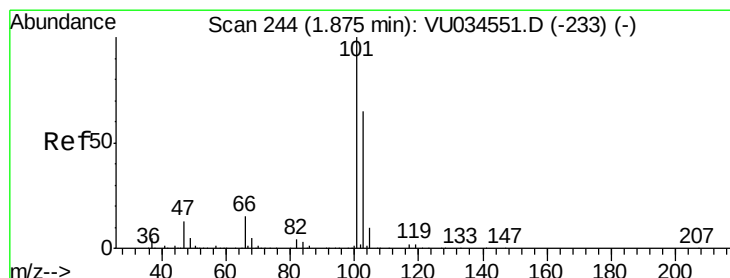
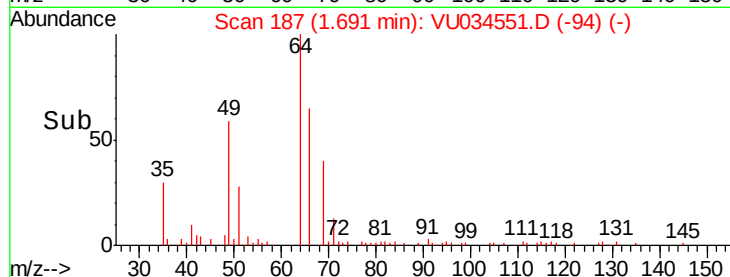
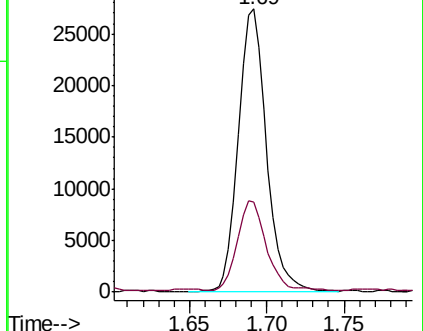
64 100

66 31.6 22.1 41.1



Abundance Ion 64.10 (63.80 to 64.80): VU034551.D (-174) (-)

Ion 66.05 (65.75 to 66.75): VU034551.D (-174) (-)



#9

Trichlorofluoromethane

Concen: 2.420 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU034551.D

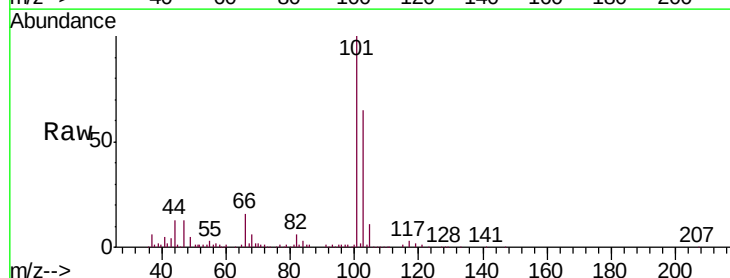
Acq: 15 Sep 2019 08:49

Tgt Ion: 101 Resp: 60746

Ion Ratio Lower Upper

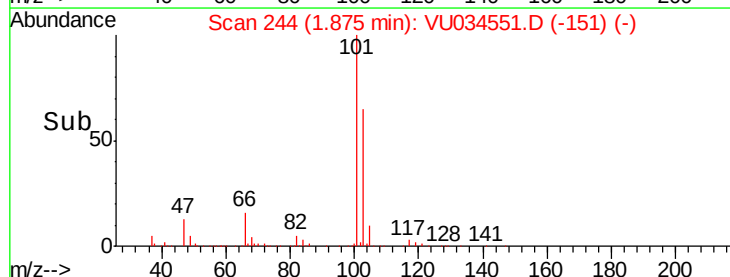
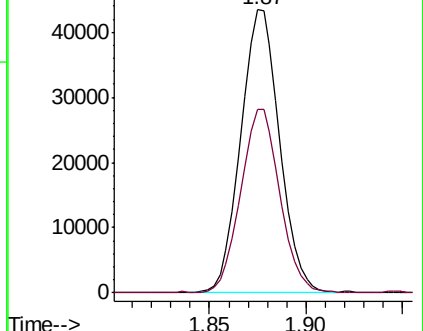
101 100

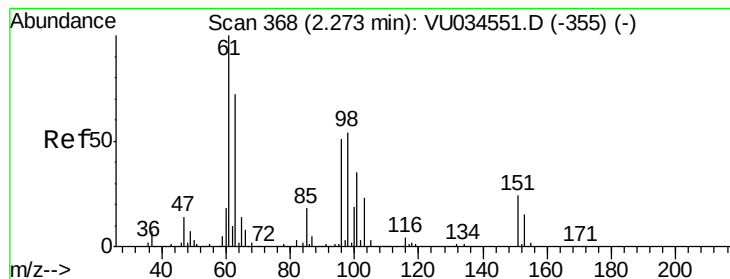
103 65.5 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): VU034551.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU034551.D (-233) (-)





#10

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

Concen: 2.139 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

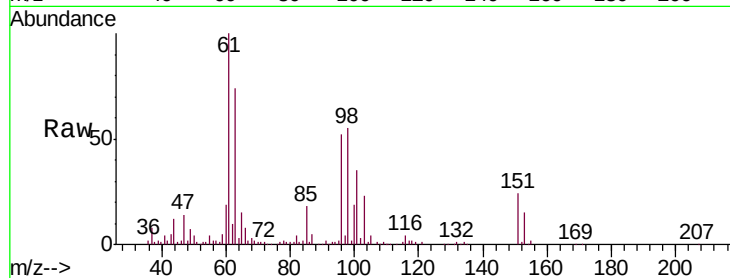
Tgt Ion:101 Resp: 30184

Ion Ratio Lower Upper

101 100

85 49.7 39.8 59.6

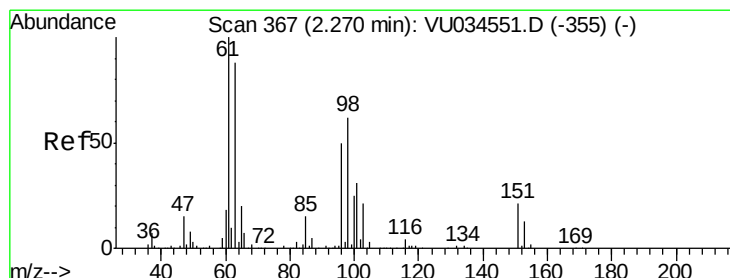
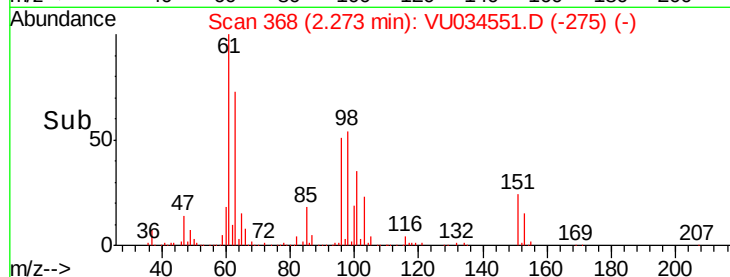
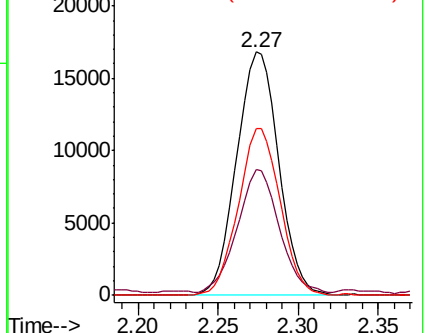
151 68.0 54.4 81.6



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: 2.692 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

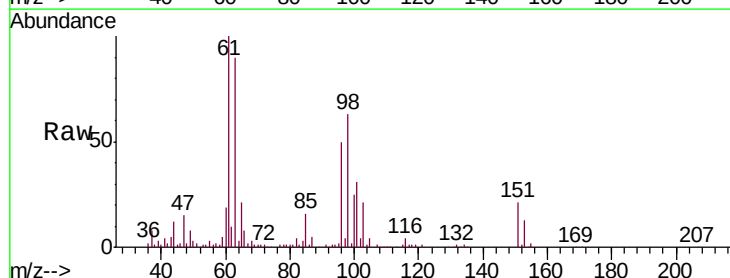
Tgt Ion: 96 Resp: 37927

Ion Ratio Lower Upper

96 100

61 198.6 139.0 258.2

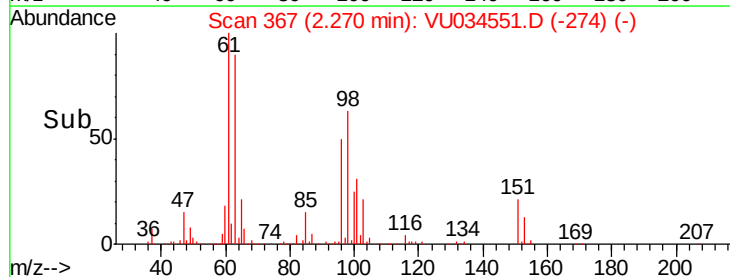
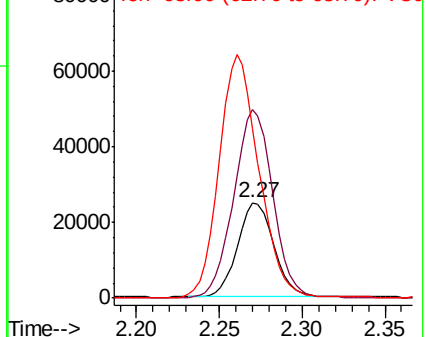
63 178.6 125.0 232.2

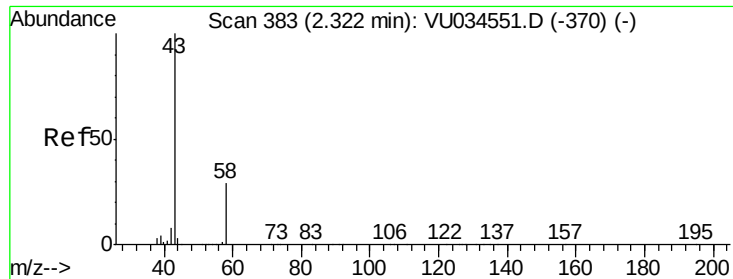


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 39.559 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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ClientSampleId :

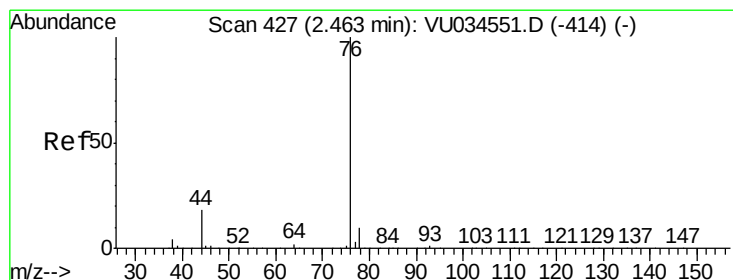
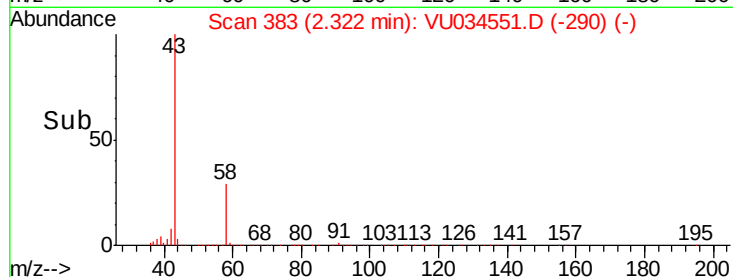
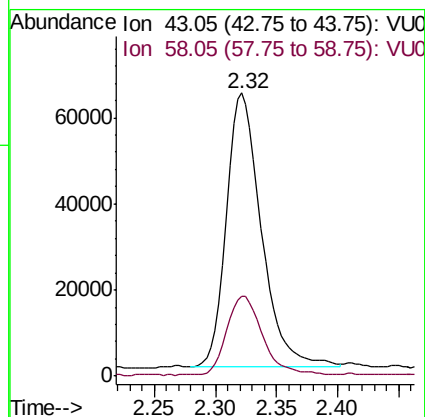
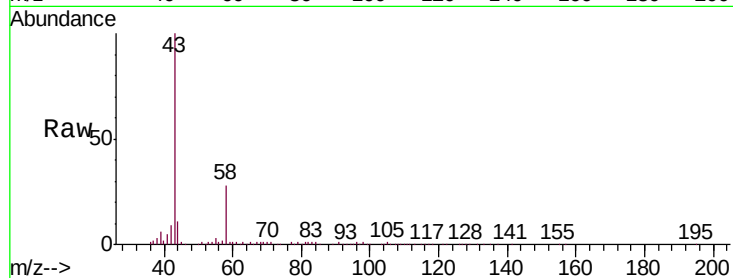
VSTD00504

Tgt Ion: 43 Resp: 126903

Ion Ratio Lower Upper

43 100

58 29.7 0.0 59.4



#14

Carbon disulfide

Concen: 2.042 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034551.D

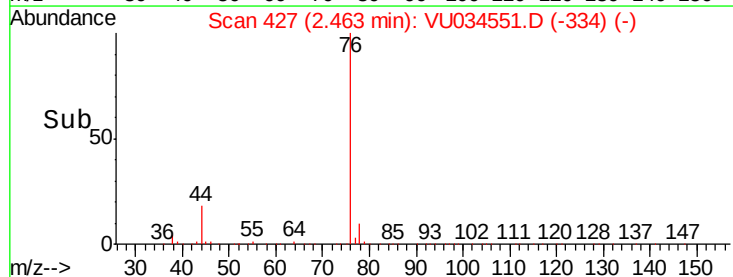
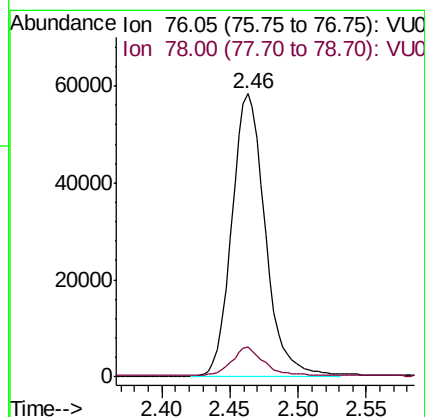
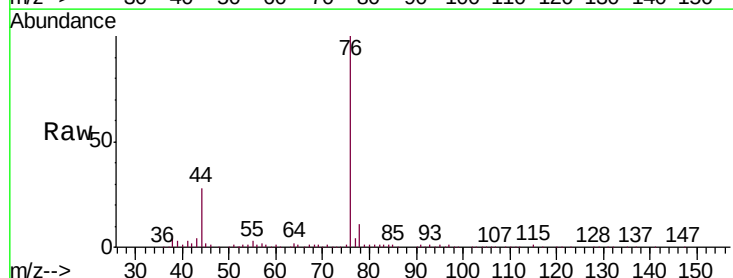
Acq: 15 Sep 2019 08:49

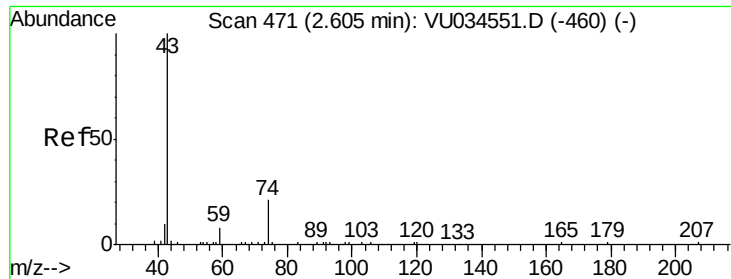
Tgt Ion: 76 Resp: 99039

Ion Ratio Lower Upper

76 100

78 10.5 8.4 12.6





#15

Methyl Acetate

Concen: 3.434 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

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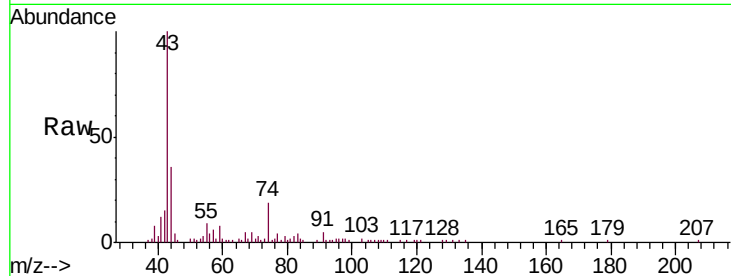
VSTD00504

Tgt Ion: 43 Resp: 29549

Ion Ratio Lower Upper

43 100

74 21.6 17.3 25.9



Abundance Ion 43.05 (42.75 to 43.75): VU034551.D (-460) (-)

Ion 74.05 (73.75 to 74.75): VU034551.D (-460) (-)

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

2.60

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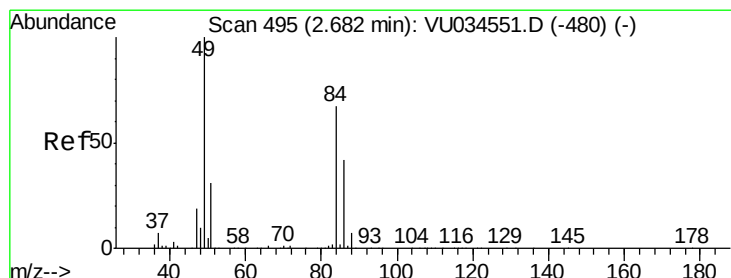
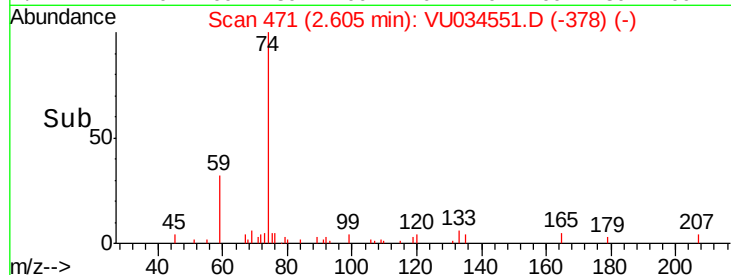
2.60

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#16

Methylene chloride

Concen: 3.114 ug/L

RT: 2.68 min Scan# 495

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

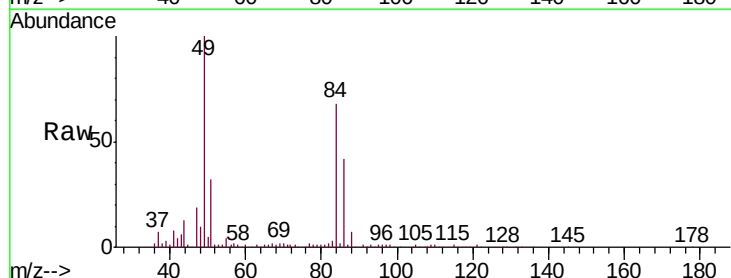
Tgt Ion: 84 Resp: 53316

Ion Ratio Lower Upper

84 100

86 62.4 43.7 81.1

49 147.9 103.5 192.3



Abundance Ion 84.05 (83.75 to 84.75): VU034551.D (-480) (-)

Ion 86.00 (85.70 to 86.70): VU034551.D (-480) (-)

Ion 49.10 (48.80 to 49.80): VU034551.D (-480) (-)

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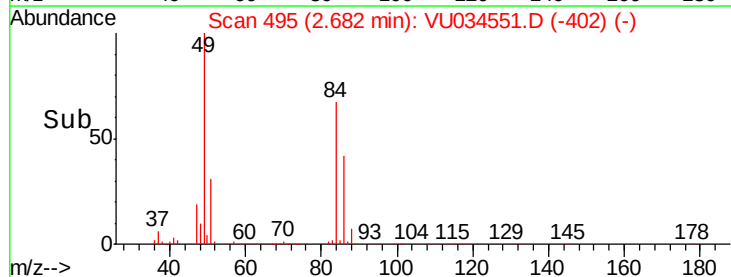
2.68

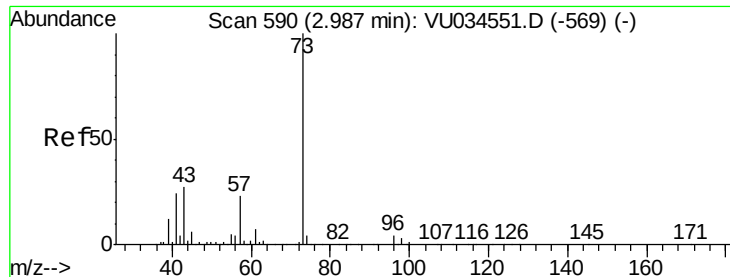
2.68

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2.68

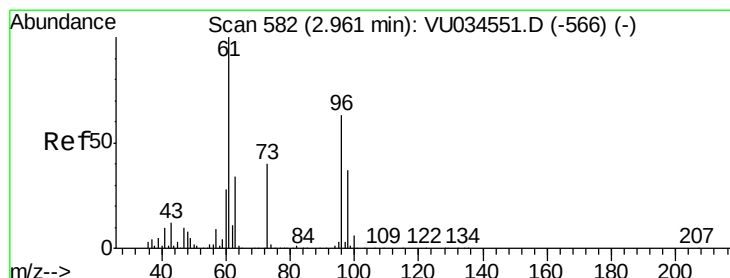
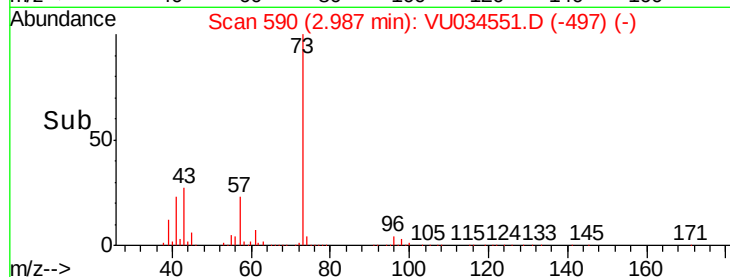
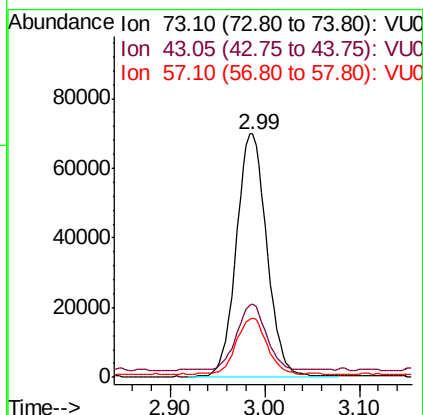
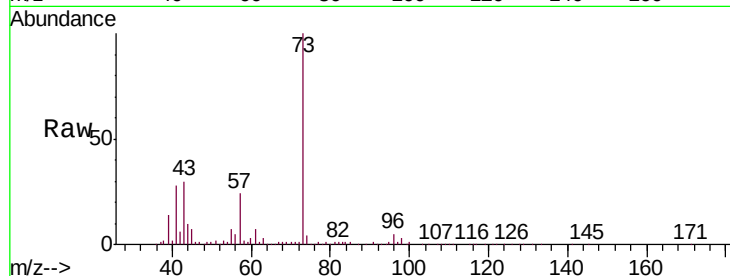




#17
Methyl tert-butyl Ether
Concen: 3.976 ug/L
RT: 2.99 min Scan# 590
Delta R.T. 0.00 min
Lab File: VU034551.D
Acq: 15 Sep 2019 08:49

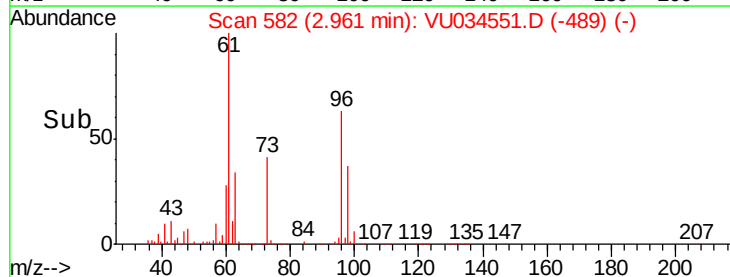
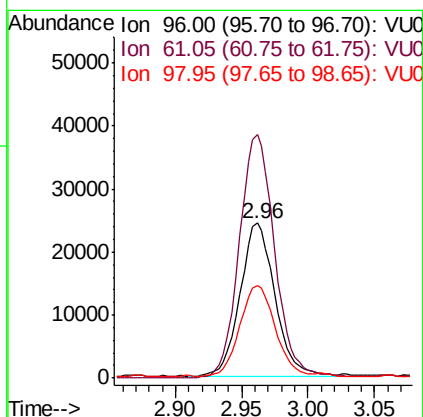
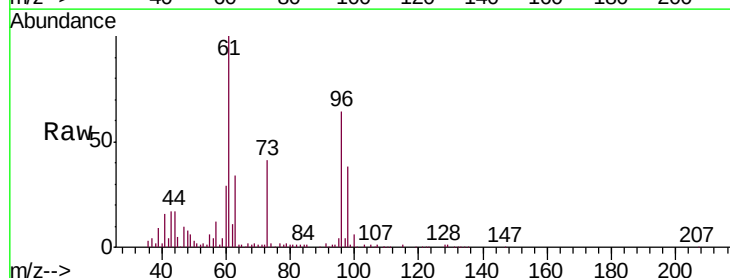
Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

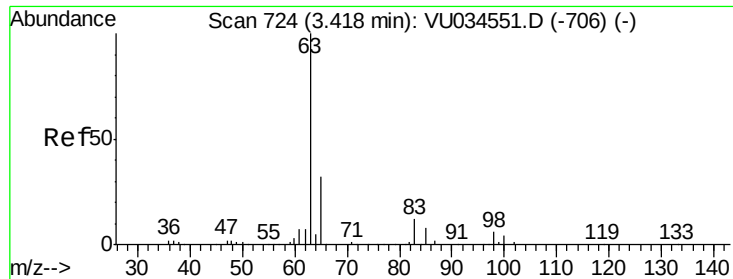
Tgt Ion: 73 Resp: 154639
Ion Ratio Lower Upper
73 100
43 26.1 20.9 31.3
57 23.2 18.6 27.8



#18
trans-1,2-Dichloroethene
Concen: 2.876 ug/L
RT: 2.96 min Scan# 582
Delta R.T. 0.00 min
Lab File: VU034551.D
Acq: 15 Sep 2019 08:49

Tgt Ion: 96 Resp: 44276
Ion Ratio Lower Upper
96 100
61 156.8 109.8 203.8
98 59.4 41.6 77.2

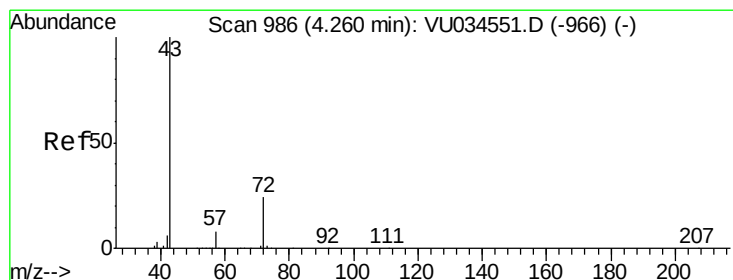
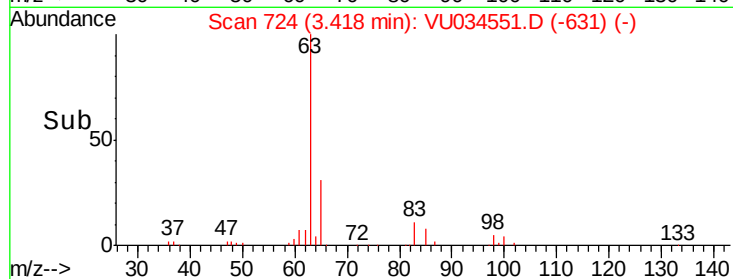
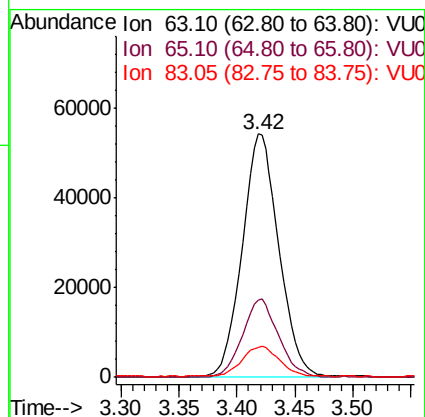
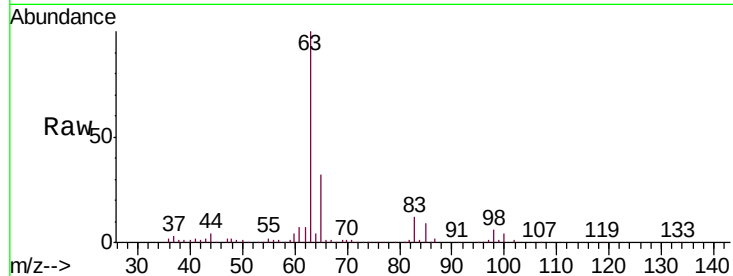




#19
 1,1-Dichloroethane
 Concen: 3.816 ug/L
 RT: 3.42 min Scan# 724
 Delta R.T. 0.00 min
 Lab File: VU034551.D
 Acq: 15 Sep 2019 08:49

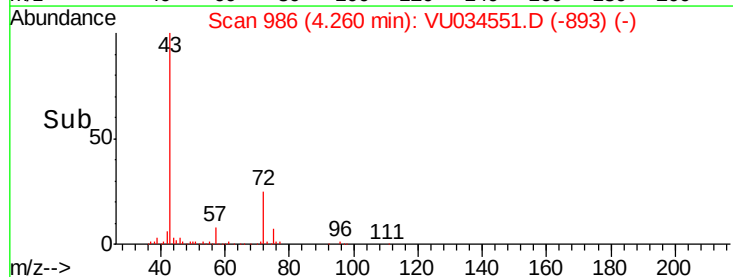
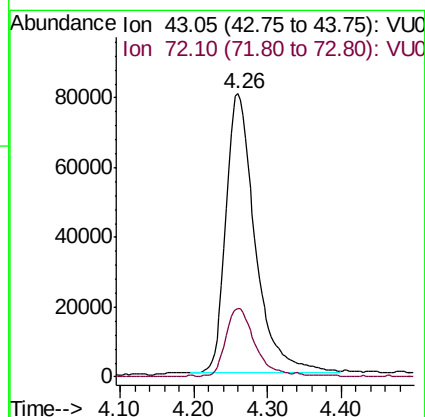
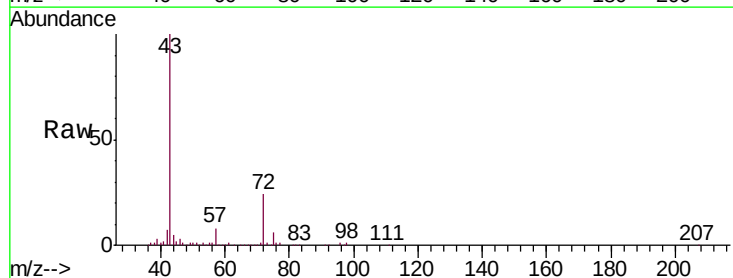
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

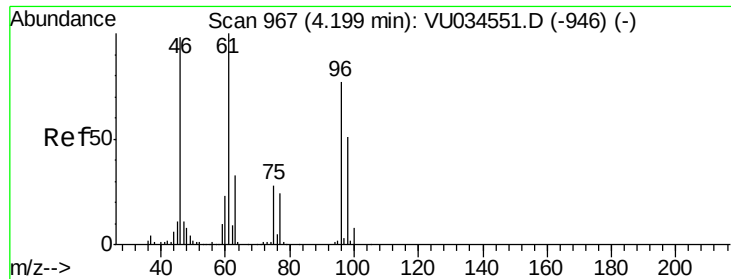
Tgt Ion: 63 Resp: 119246
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.3 41.5
 83 12.4 8.7 16.1



#21
 2-Butanone
 Concen: 46.928 ug/L
 RT: 4.26 min Scan# 986
 Delta R.T. 0.00 min
 Lab File: VU034551.D
 Acq: 15 Sep 2019 08:49

Tgt Ion: 43 Resp: 220507
 Ion Ratio Lower Upper
 43 100
 72 23.7 11.9 35.5



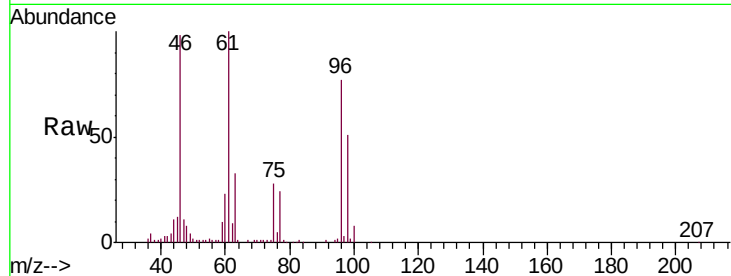


#22

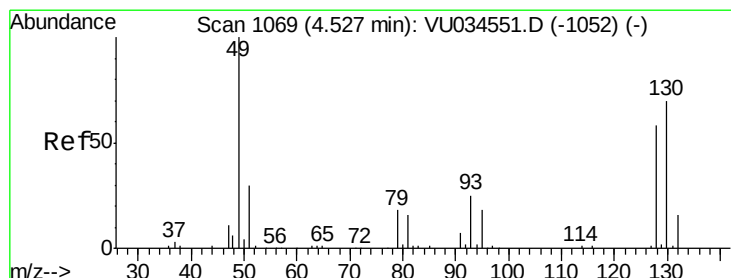
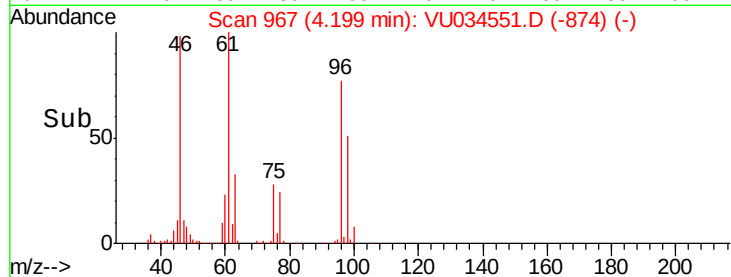
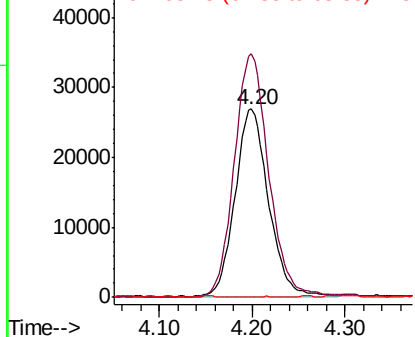
cis-1,2-Dichloroethene
Concen: 4.016 ug/L
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU034551.D
Acq: 15 Sep 2019 08:49

Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

Tgt Ion: 96 Resp: 67003
Ion Ratio Lower Upper
96 100
61 129.3 90.5 168.1
68 0.0 0.0 0.0



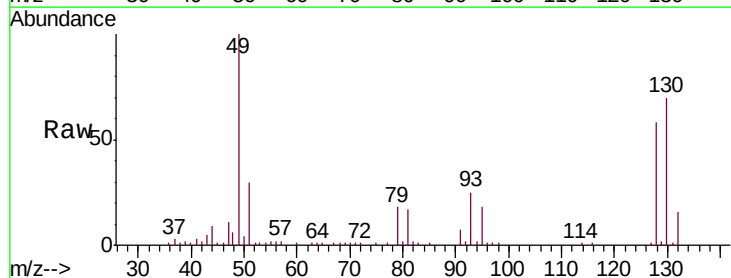
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



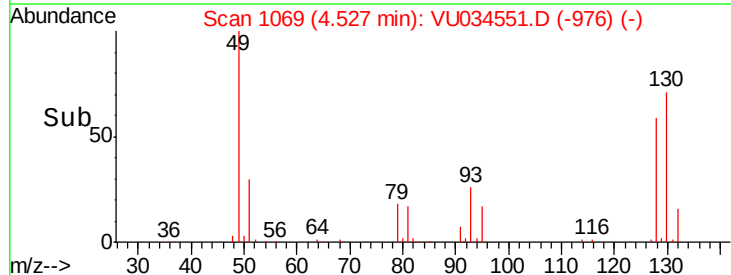
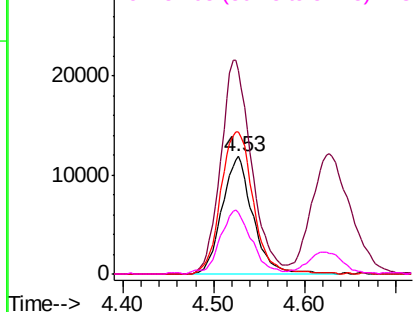
#23

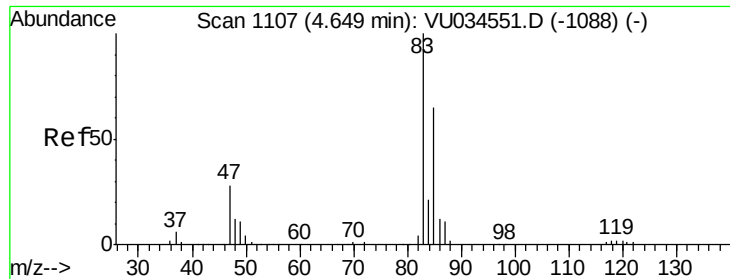
Bromochloromethane
Concen: 3.743 ug/L
RT: 4.53 min Scan# 1069
Delta R.T. 0.00 min
Lab File: VU034551.D
Acq: 15 Sep 2019 08:49

Tgt Ion: 128 Resp: 27908
Ion Ratio Lower Upper
128 100
49 173.1 121.2 225.0
130 120.5 84.4 156.7
51 52.2 41.8 62.6



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

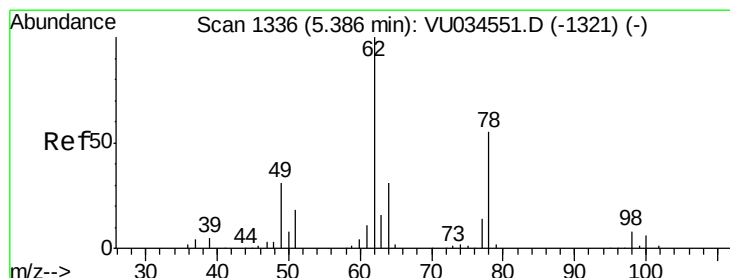
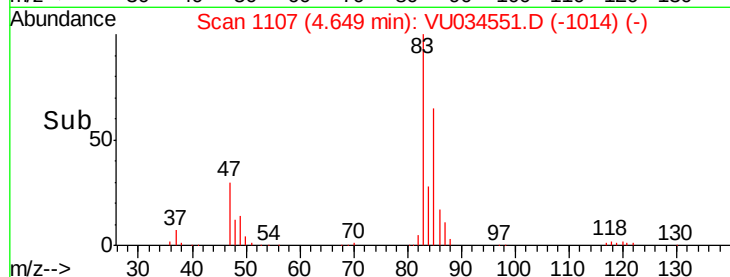
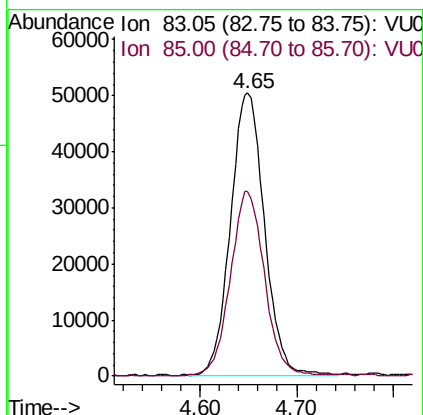
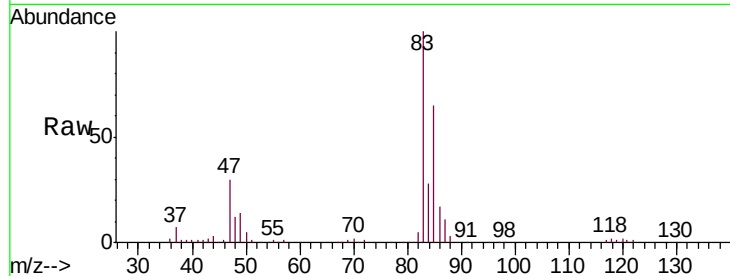




#25
Chloroform
Concen: 3.728 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034551.D
Acq: 15 Sep 2019 08:49

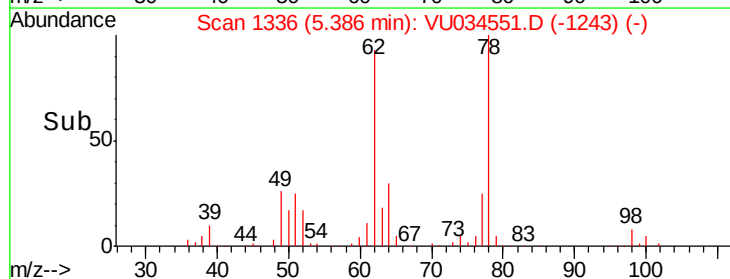
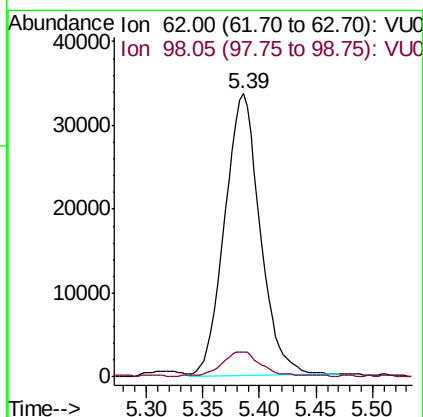
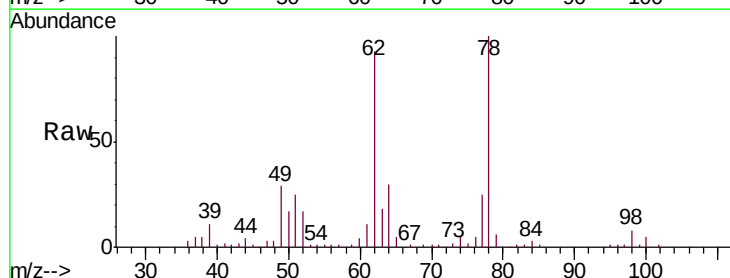
Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

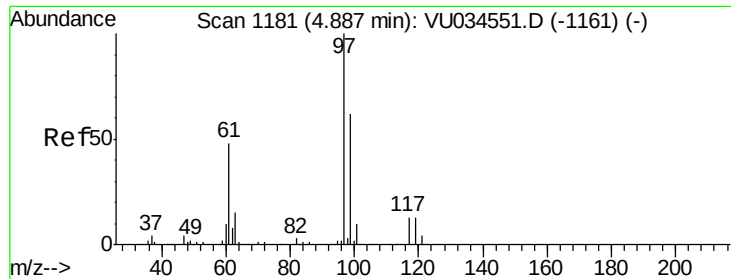
Tgt Ion: 83 Resp: 121843
Ion Ratio Lower Upper
83 100
85 65.1 45.6 84.6



#27
1,2-Dichloroethane
Concen: 3.819 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU034551.D
Acq: 15 Sep 2019 08:49

Tgt Ion: 62 Resp: 73381
Ion Ratio Lower Upper
62 100
98 8.9 7.1 10.7

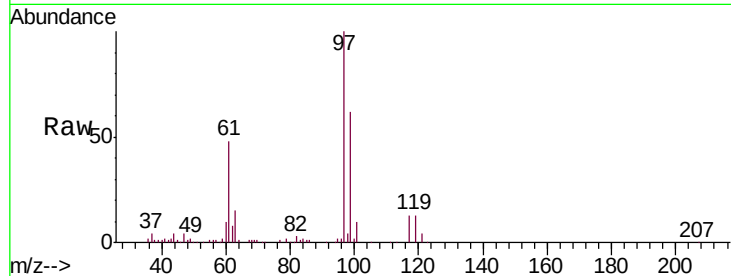




#29
 1,1,1-Trichloroethane
 Concen: 3.818 ug/L
 RT: 4.89 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VU034551.D
 Acq: 15 Sep 2019 08:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.5	77.3
61	48.1	38.5	57.7

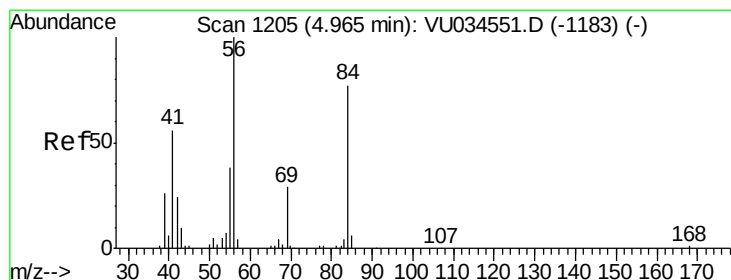
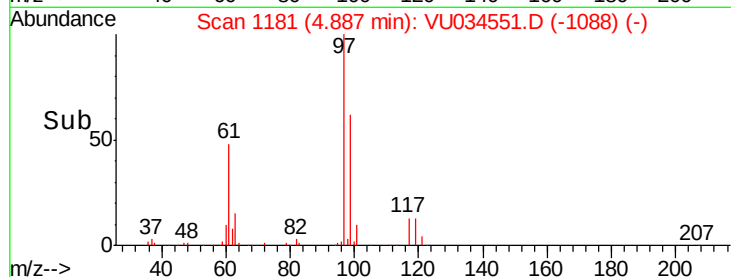
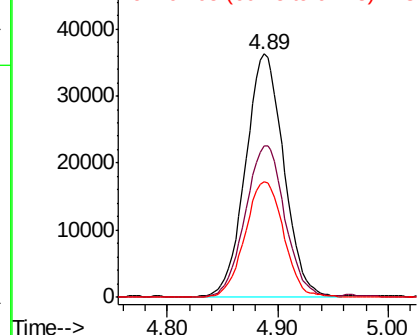


Abundance

Ion 96.95 (96.65 to 97.65): VU0

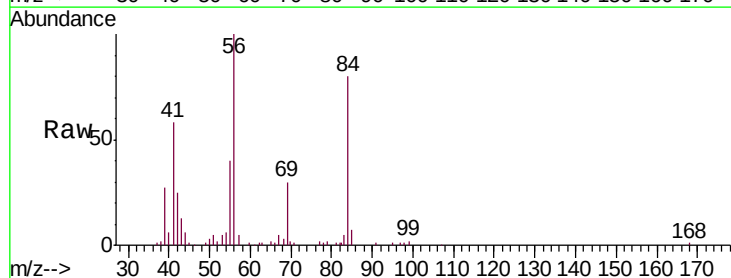
Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30
 Cyclohexane
 Concen: 2.767 ug/L
 RT: 4.96 min Scan# 1205
 Delta R.T. 0.00 min
 Lab File: VU034551.D
 Acq: 15 Sep 2019 08:49

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.6	38.4
84	83.0	66.4	99.6

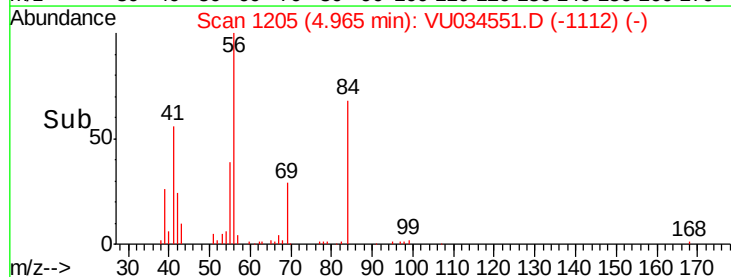
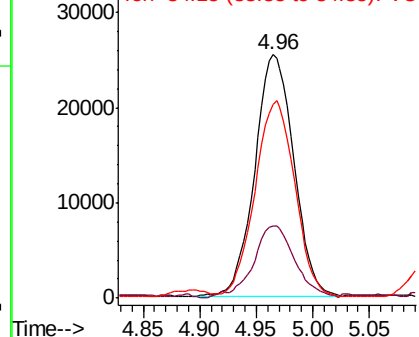


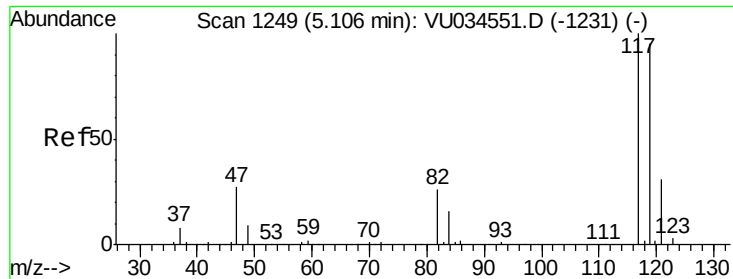
Abundance

Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 3.401 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

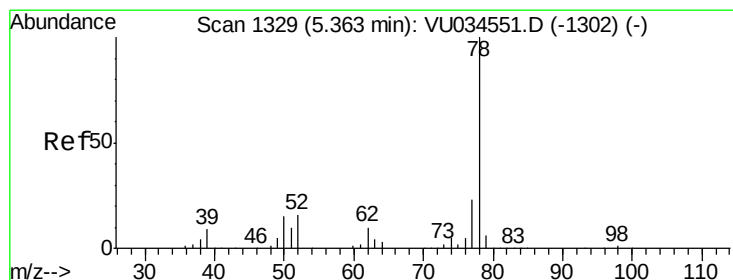
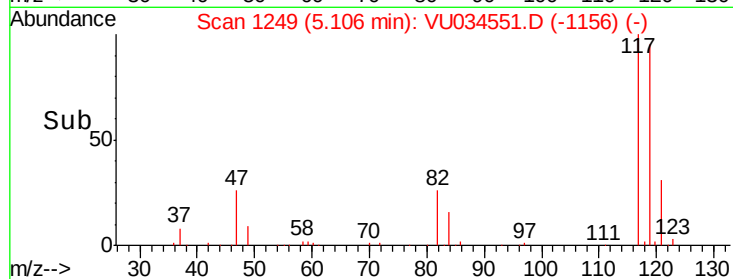
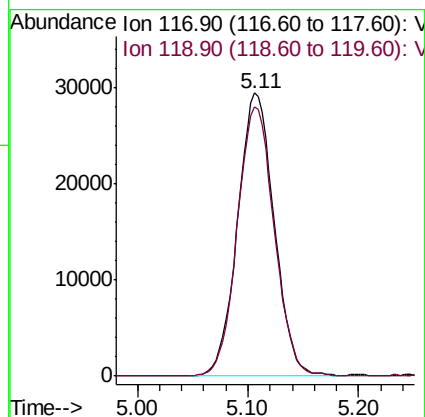
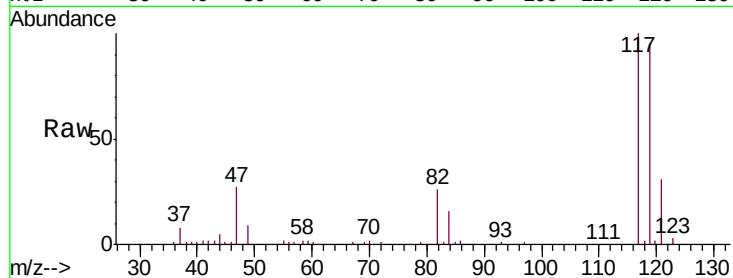
VSTD00504

Tgt Ion:117 Resp: 67687

Ion Ratio Lower Upper

117 100

119 96.1 76.9 115.3



#33

Benzene

Concen: 4.237 ug/L

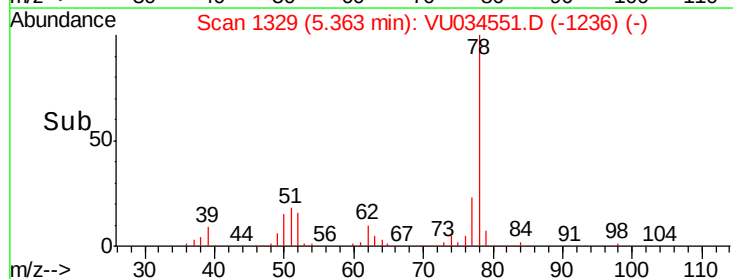
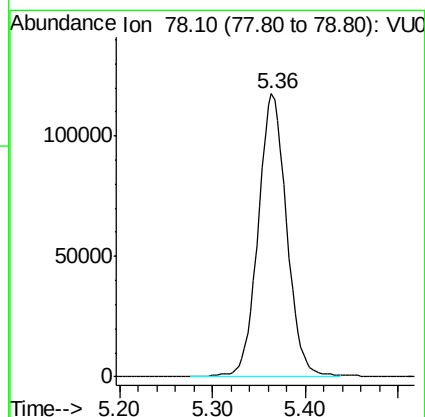
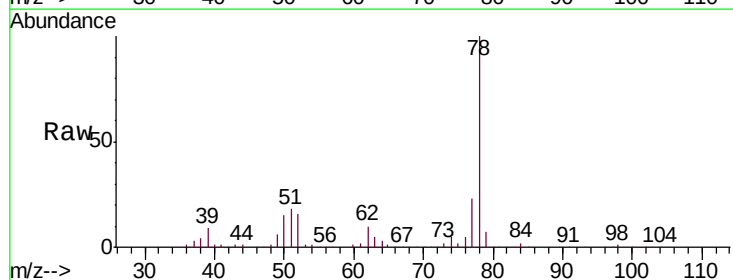
RT: 5.36 min Scan# 1329

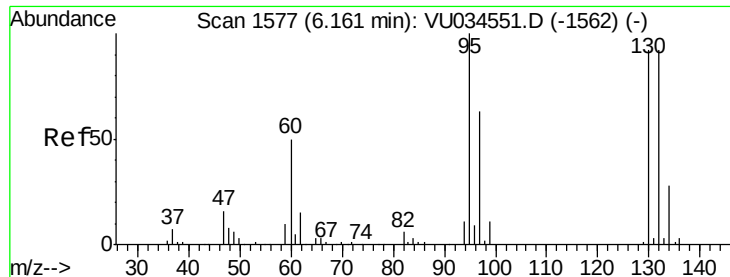
Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Tgt Ion: 78 Resp: 251413





#34

Trichloroethene

Concen: 4.026 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

Tgt Ion: 95 Resp: 61925

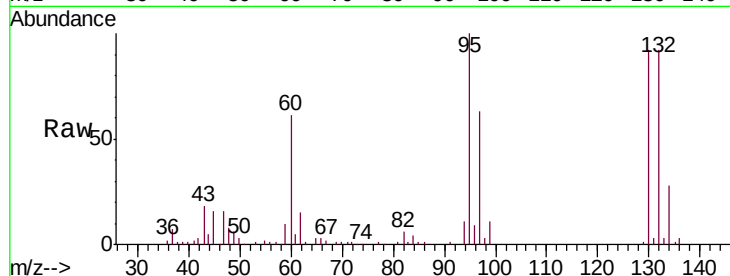
Ion Ratio Lower Upper

95 100

97 63.5 44.4 82.5

132 92.5 64.8 120.3

130 92.2 64.5 119.9

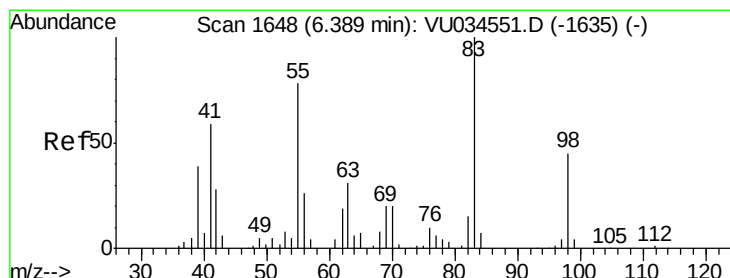
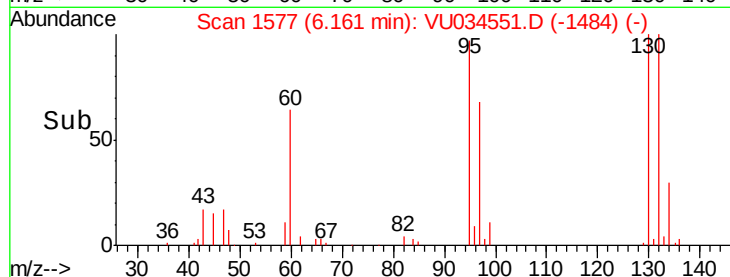
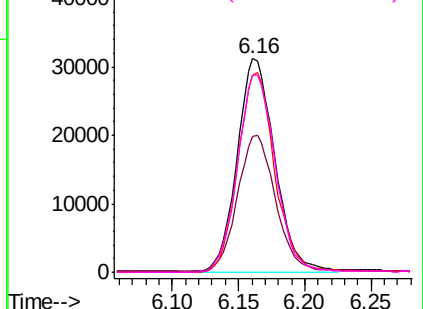


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 2.655 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

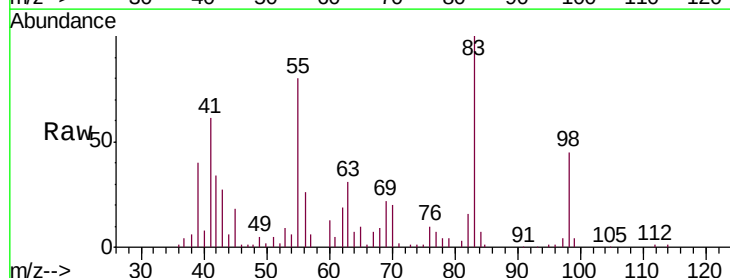
Tgt Ion: 83 Resp: 57770

Ion Ratio Lower Upper

83 100

55 79.5 63.6 95.4

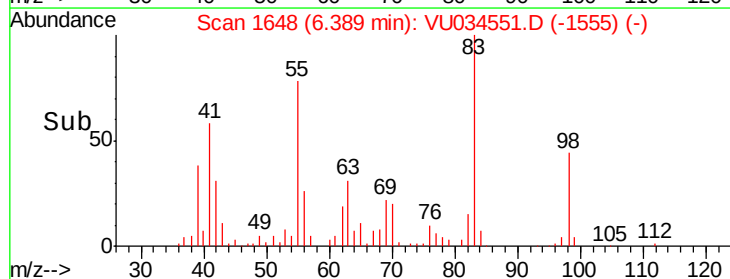
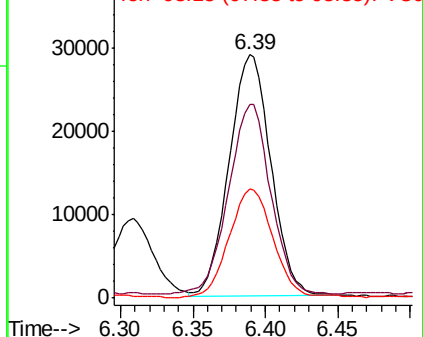
98 48.0 38.4 57.6

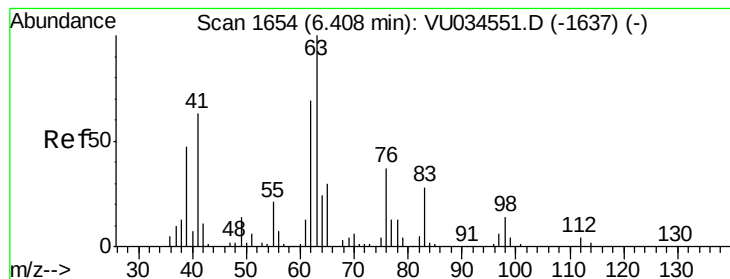


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.447 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

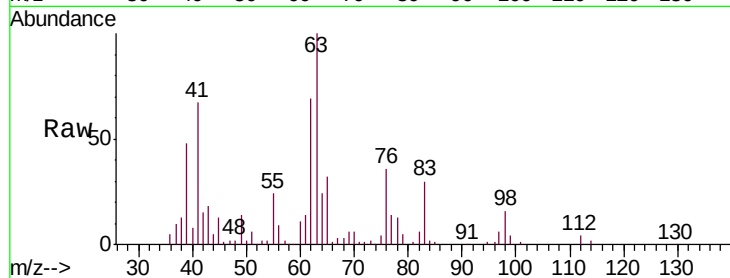
VSTD00504

Tgt Ion: 63 Resp: 73544

Ion Ratio Lower Upper

63 100

112 3.6 2.9 4.3



Abundance Ion 63.10 (62.80 to 63.80): VU034551.D (-1637) (-)

Ion 112.10 (111.80 to 112.80): VU034551.D (-1637) (-)

6.41

40000

30000

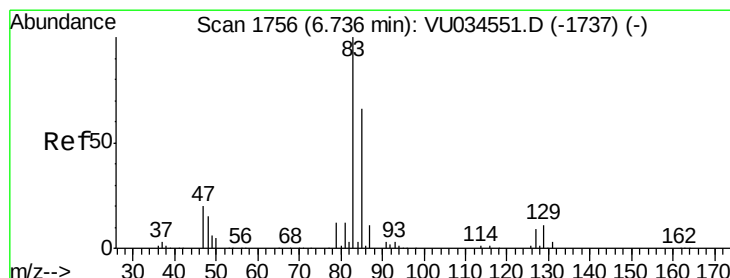
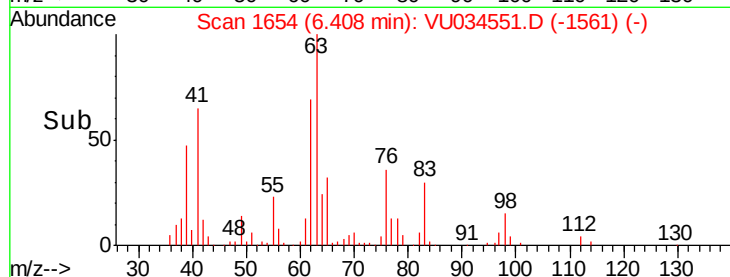
20000

10000

0

6.30 6.35 6.40 6.45 6.50

Time-->



#38

Bromodichloromethane

Concen: 4.460 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

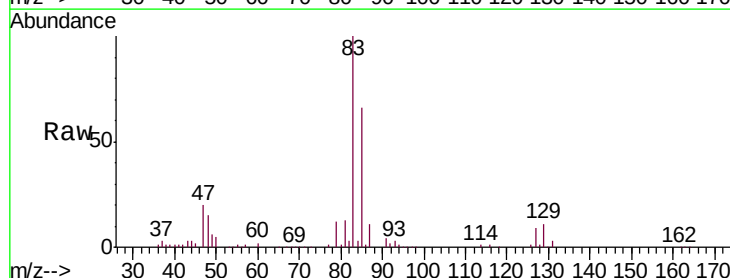
Tgt Ion: 83 Resp: 90562

Ion Ratio Lower Upper

83 100

85 66.5 46.5 86.5

127 8.7 7.0 10.4



Abundance Ion 82.95 (82.65 to 83.65): VU034551.D (-1737) (-)

Ion 85.00 (84.70 to 85.70): VU034551.D (-1737) (-)

Ion 126.90 (126.60 to 127.60): VU034551.D (-1737) (-)

6.74

60000

50000

40000

30000

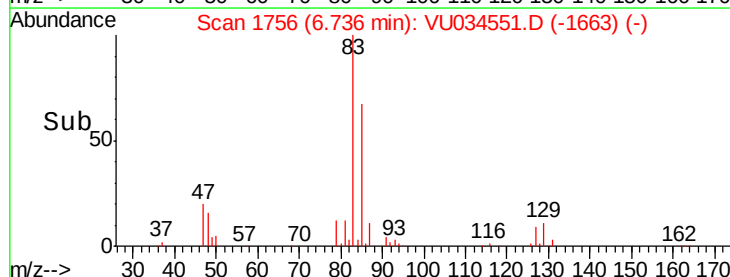
20000

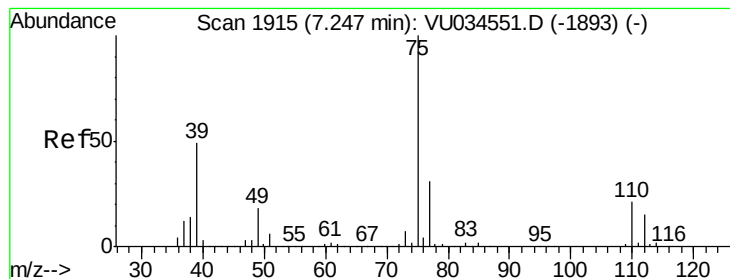
10000

0

6.65 6.70 6.75 6.80

Time-->





#39

cis-1,3-Dichloropropene

Concen: 5.193 ug/L

RT: 7.25 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

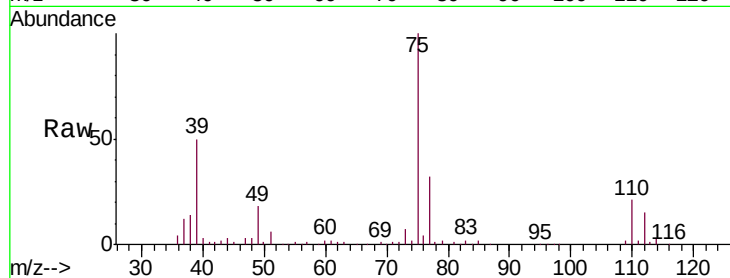
VSTD00504

Tgt Ion: 75 Resp: 115856

Ion Ratio Lower Upper

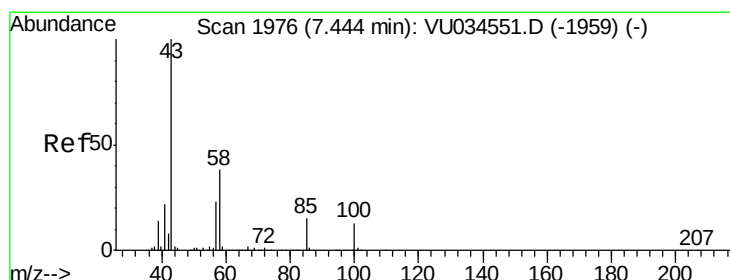
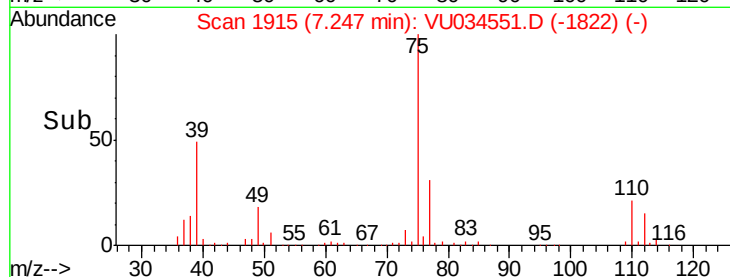
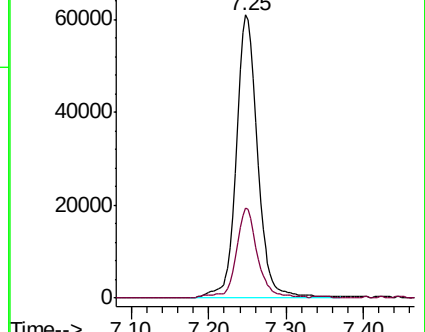
75 100

77 31.7 22.2 41.2



Abundance Ion 75.05 (74.75 to 75.75): VU034551.D (-1893) (-)

Ion 77.05 (76.75 to 77.75): VU034551.D (-1893) (-)



#40

4-Methyl-2-pentanone

Concen: 54.311 ug/L

RT: 7.44 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

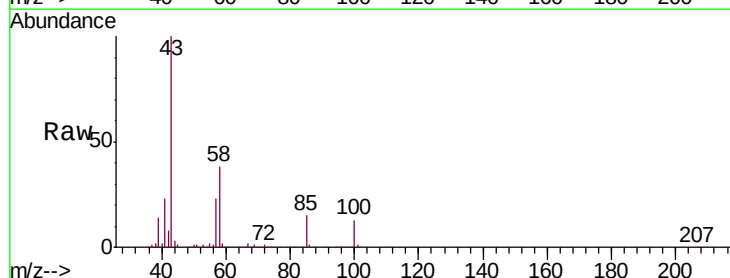
Tgt Ion: 43 Resp: 561943

Ion Ratio Lower Upper

43 100

58 37.5 30.0 45.0

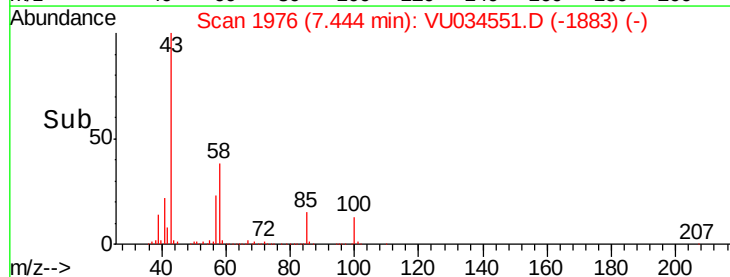
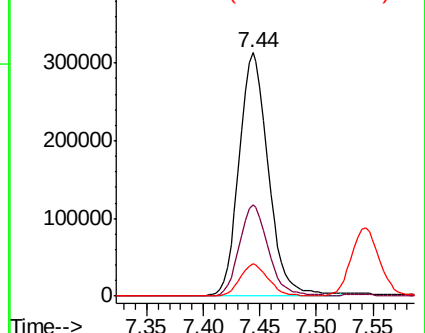
100 13.1 10.5 15.7

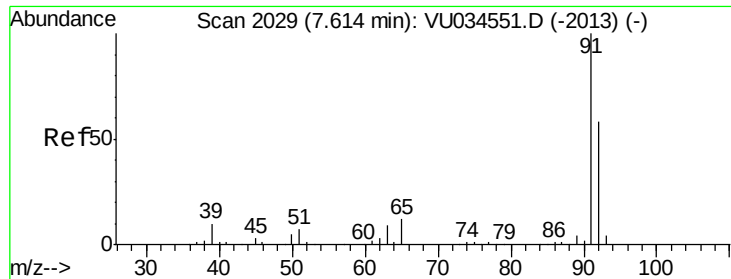


Abundance Ion 43.05 (42.75 to 43.75): VU034551.D (-1959) (-)

Ion 58.05 (57.75 to 58.75): VU034551.D (-1959) (-)

Ion 100.15 (99.85 to 100.85): VU034551.D (-1959) (-)





#42

Toluene

Concen: 4.462 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

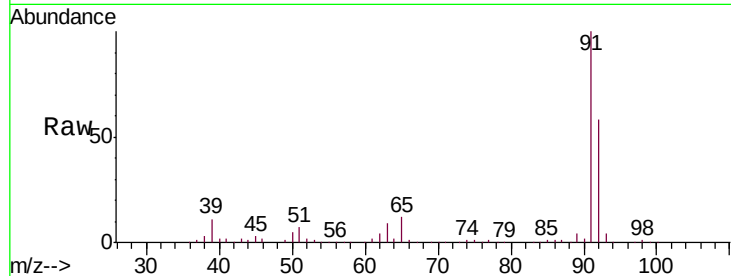
VSTD00504

Tgt Ion: 91 Resp: 267104

Ion Ratio Lower Upper

91 100

92 57.6 40.3 74.9



Abundance Ion 91.15 (90.85 to 91.85): VU034551.D (-2013) (-)

Ion 92.15 (91.85 to 92.85): VU034551.D (-2013) (-)

7.61

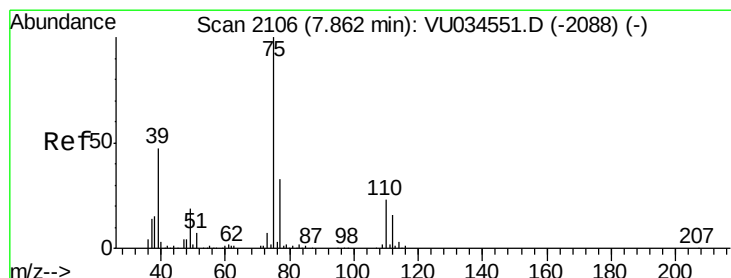
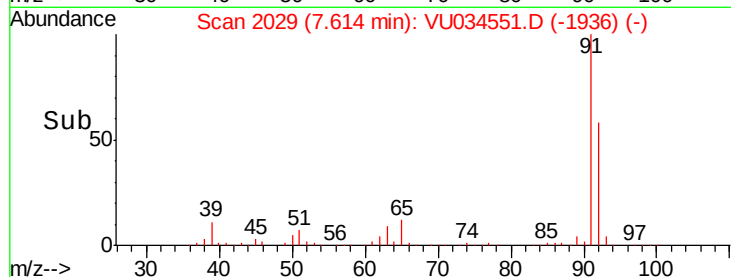
150000

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#44

trans-1,3-Dichloropropene

Concen: 5.026 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034551.D

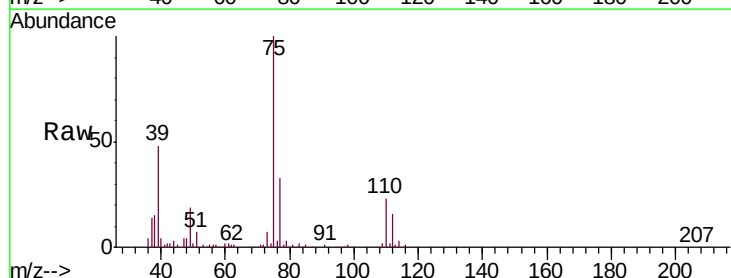
Acq: 15 Sep 2019 08:49

Tgt Ion: 75 Resp: 90943

Ion Ratio Lower Upper

75 100

77 33.4 23.4 43.4



Abundance Ion 75.05 (74.75 to 75.75): VU034551.D (-2088) (-)

Ion 77.05 (76.75 to 77.75): VU034551.D (-2088) (-)

7.86

50000

40000

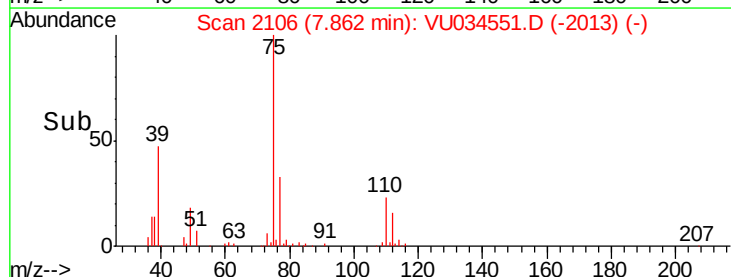
30000

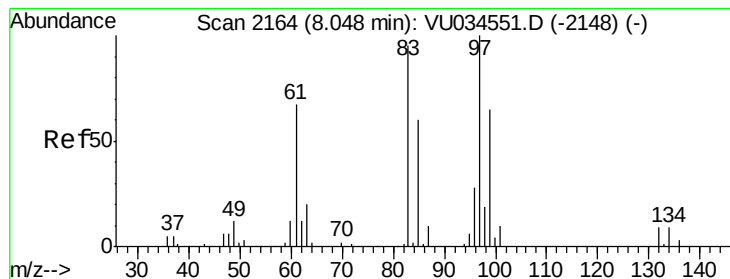
20000

10000

0

Time--> 7.80 7.90 8.00





#45

1,1,2-Trichloroethane

Concen: 4.543 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

Tgt Ion: 97 Resp: 50883

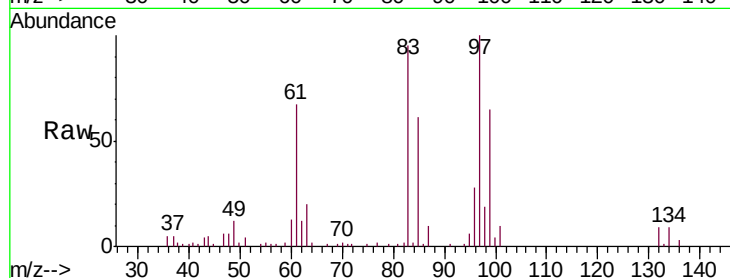
Ion Ratio Lower Upper

97 100

99 65.0 45.5 84.5

83 95.5 66.8 124.2

85 60.8 42.6 79.0

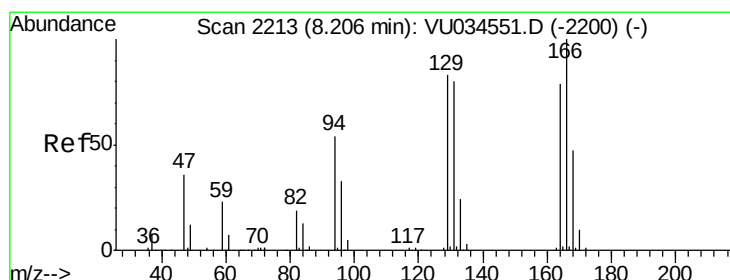
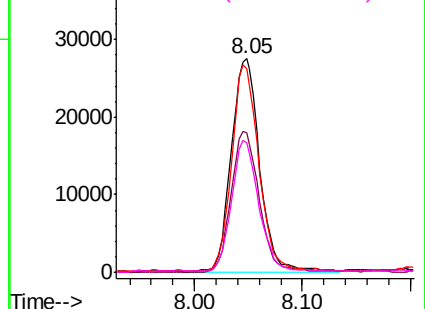
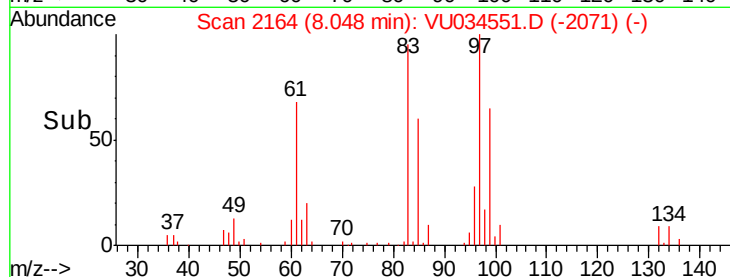


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 3.255 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Tgt Ion: 164 Resp: 37626

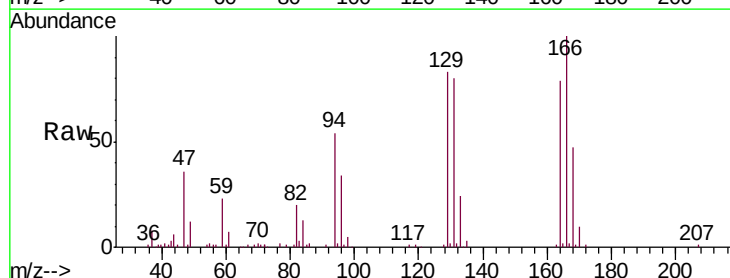
Ion Ratio Lower Upper

164 100

129 105.3 73.7 136.9

131 102.1 71.5 132.7

166 127.3 89.1 165.5

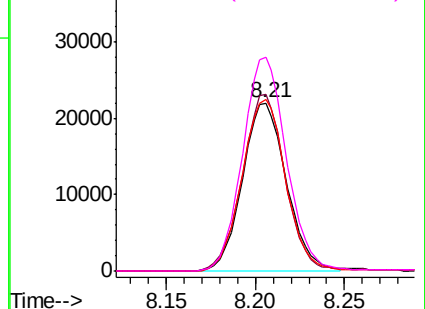
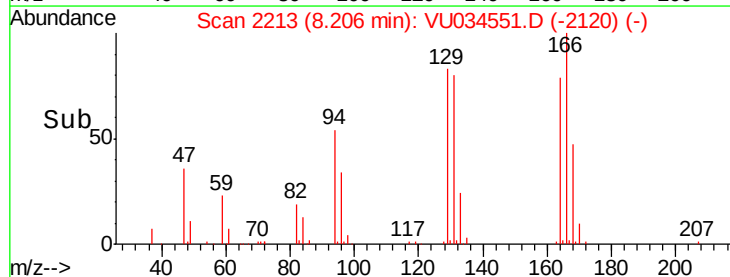


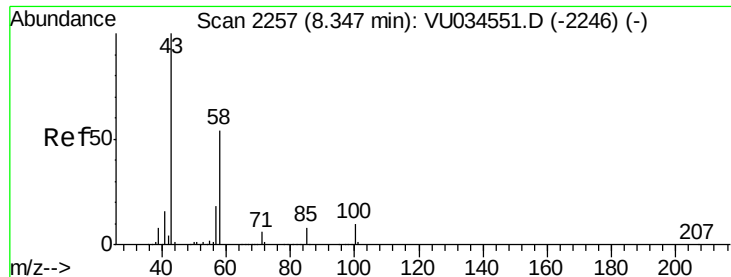
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

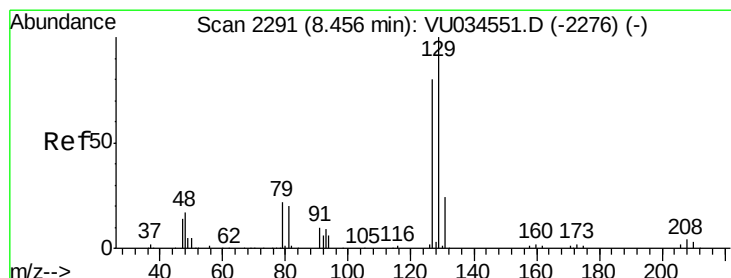
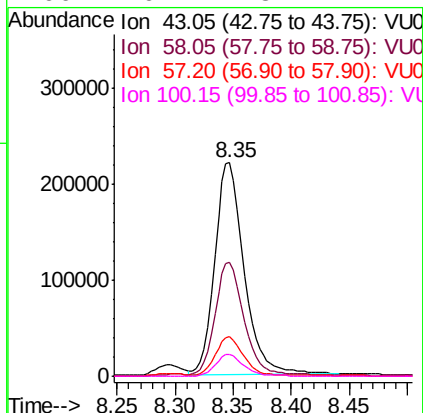
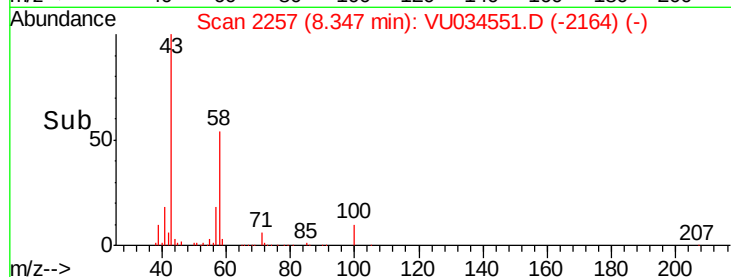
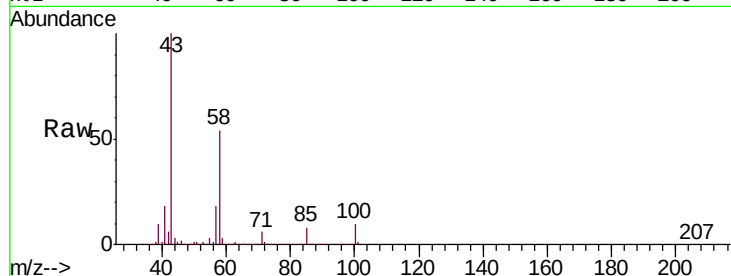




#48
2-Hexanone
Concen: 54.164 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU034551.D
Acq: 15 Sep 2019 08:49

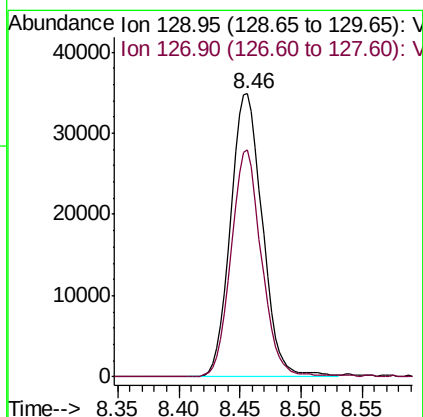
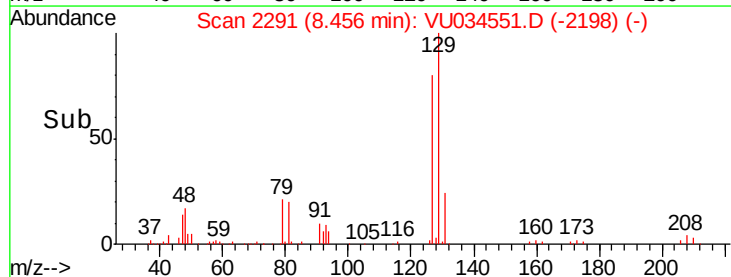
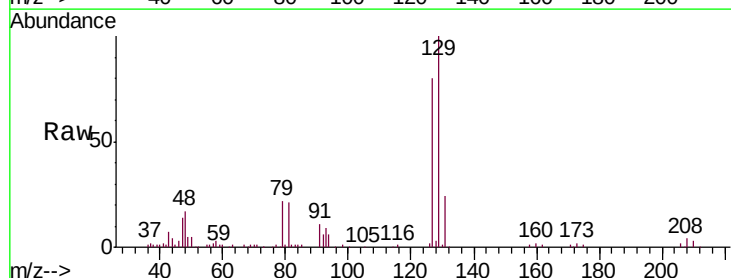
Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

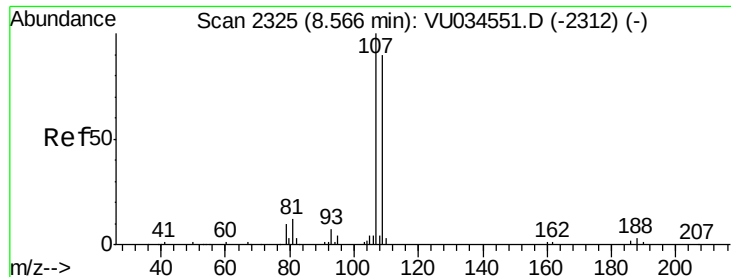
Tgt Ion: 43 Resp: 388685
Ion Ratio Lower Upper
43 100
58 54.1 43.3 64.9
57 17.5 14.0 21.0
100 10.2 8.2 12.2



#49
Dibromochloromethane
Concen: 4.761 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034551.D
Acq: 15 Sep 2019 08:49

Tgt Ion: 129 Resp: 63476
Ion Ratio Lower Upper
129 100
127 80.3 56.2 104.4





#50

1,2-Dibromoethane

Concen: 4.456 ug/L

RT: 8.57 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

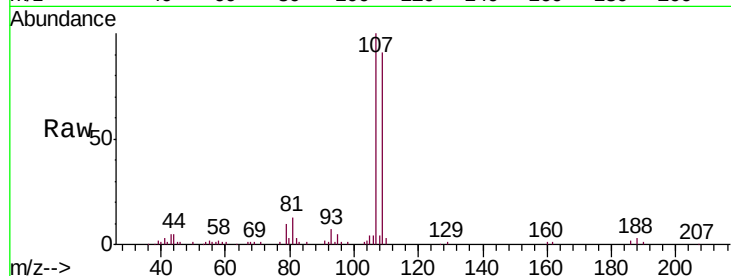
Tgt Ion:107 Resp: 47353

Ion Ratio Lower Upper

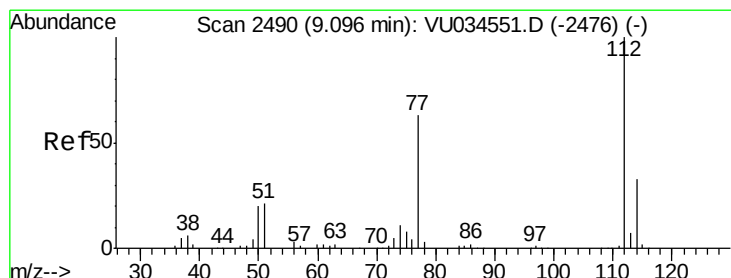
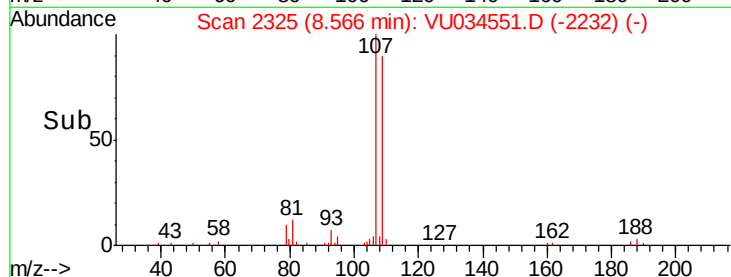
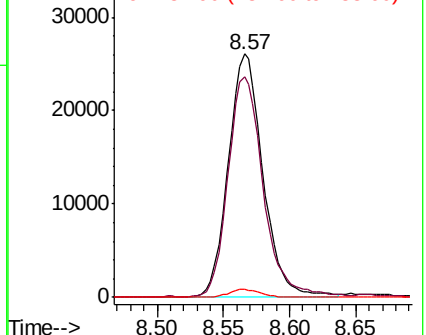
107 100

109 90.8 63.6 118.0

188 3.1 2.5 3.7



Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.389 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

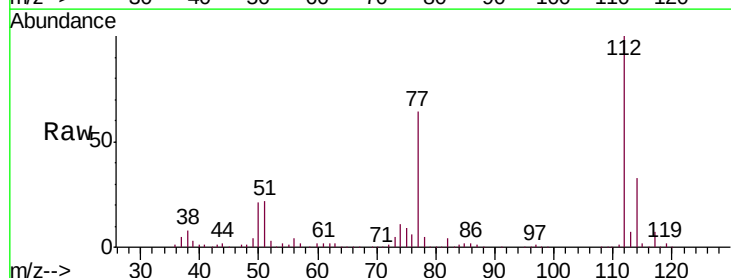
Tgt Ion:112 Resp: 173745

Ion Ratio Lower Upper

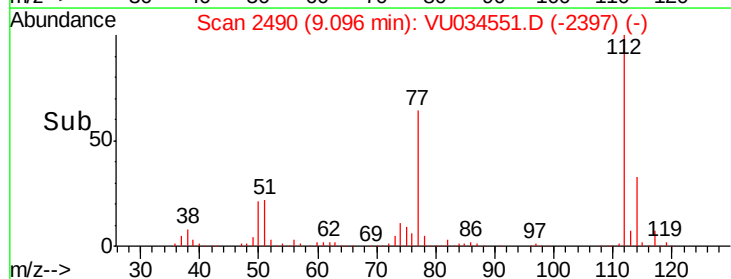
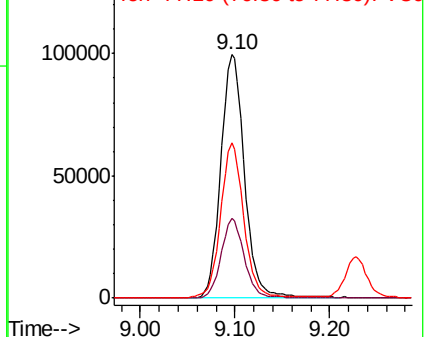
112 100

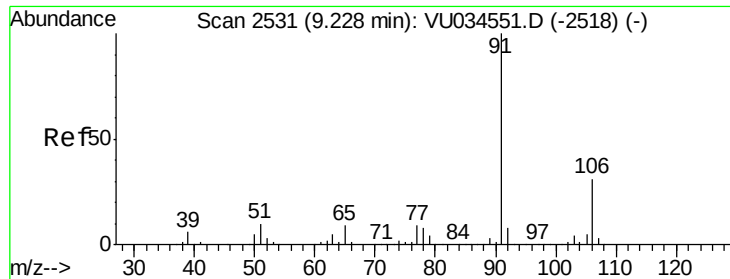
114 32.7 22.9 42.5

77 63.7 51.0 76.4



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.702 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

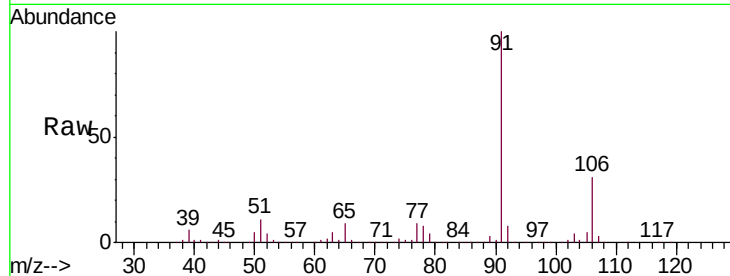
VSTD00504

Tgt Ion: 91 Resp: 300139

Ion Ratio Lower Upper

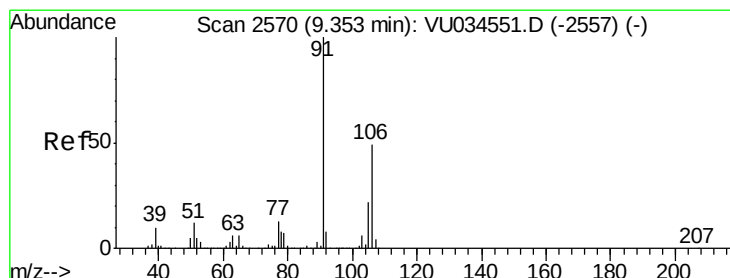
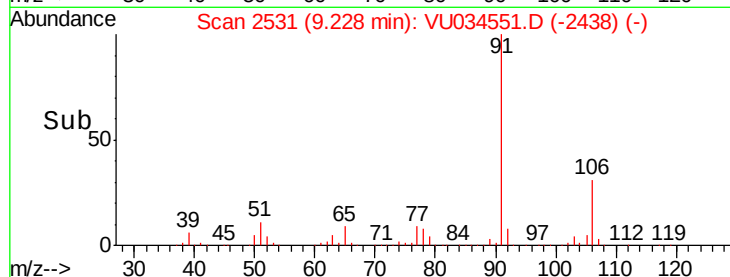
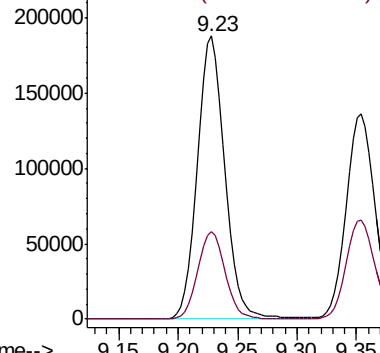
91 100

106 31.0 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-Xylene

Concen: 4.702 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034551.D

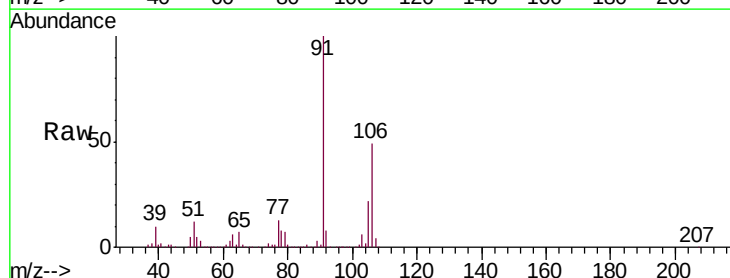
Acq: 15 Sep 2019 08:49

Tgt Ion: 106 Resp: 111562

Ion Ratio Lower Upper

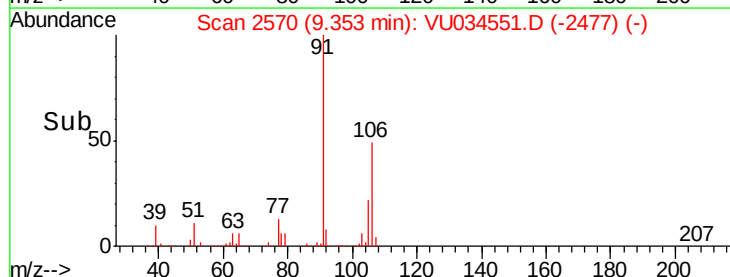
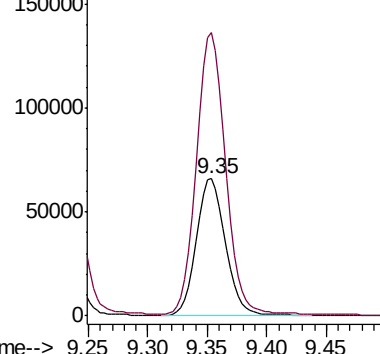
106 100

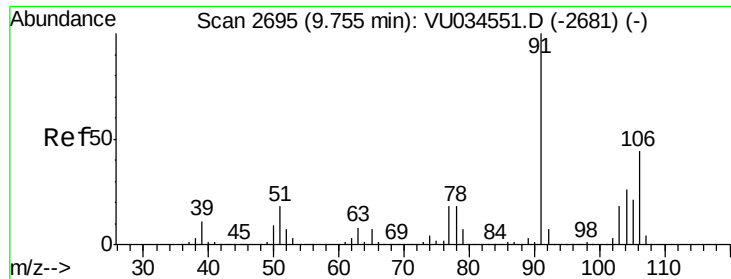
91 206.1 144.3 267.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#54

o-Xylene

Concen: 4.979 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

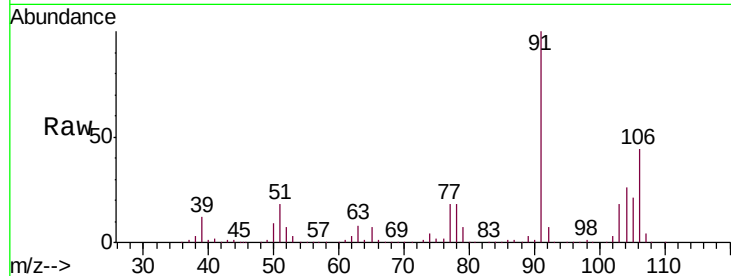
VSTD00504

Tgt Ion:106 Resp: 112660

Ion Ratio Lower Upper

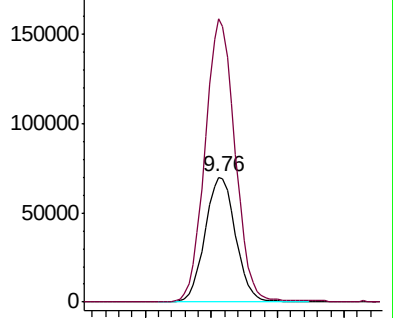
106 100

91 226.7 158.7 294.7

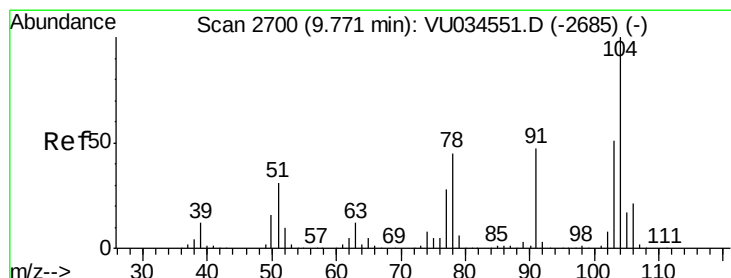
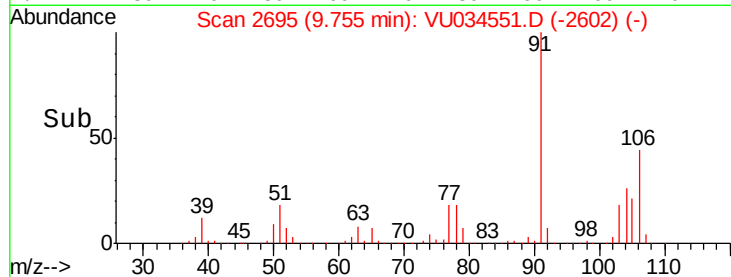


Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



Time-->



#55

Styrene

Concen: 5.098 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VU034551.D

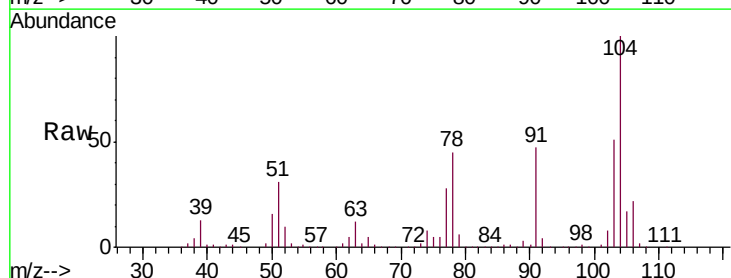
Acq: 15 Sep 2019 08:49

Tgt Ion:104 Resp: 198166

Ion Ratio Lower Upper

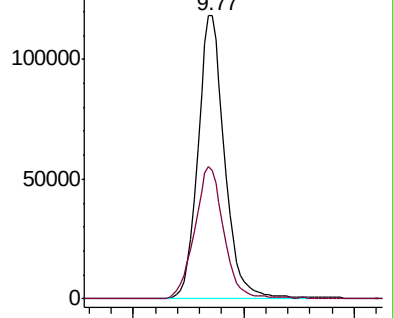
104 100

78 45.4 31.8 59.0

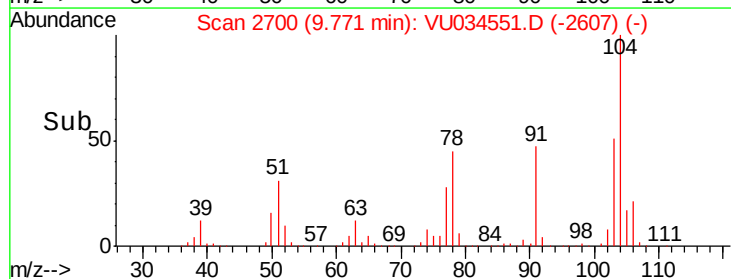


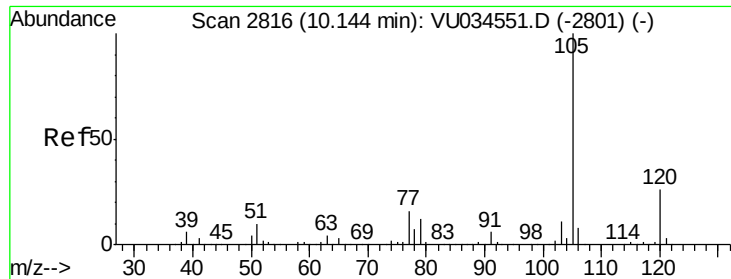
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0



Time-->





#56

Isopropylbenzene

Concen: 4.906 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

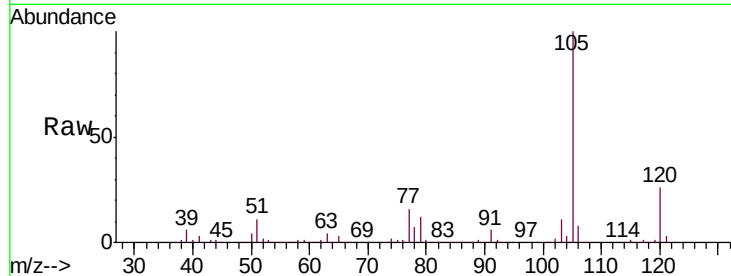
Tgt Ion: 105 Resp: 294101

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

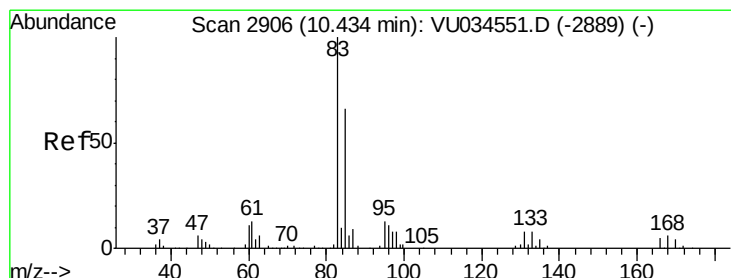
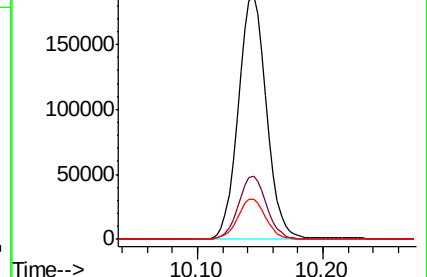
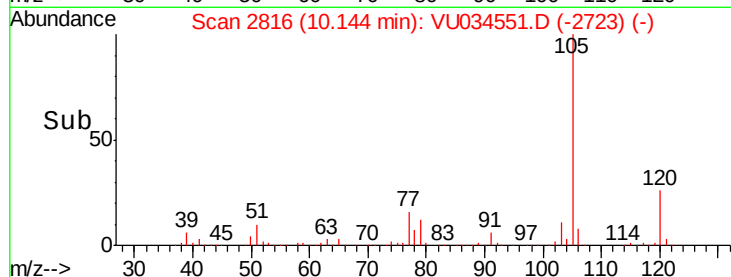
77 16.7 13.4 20.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.813 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

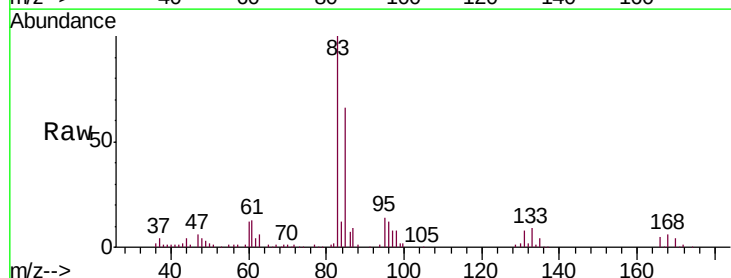
Tgt Ion: 83 Resp: 71972

Ion Ratio Lower Upper

83 100

85 66.0 46.2 85.8

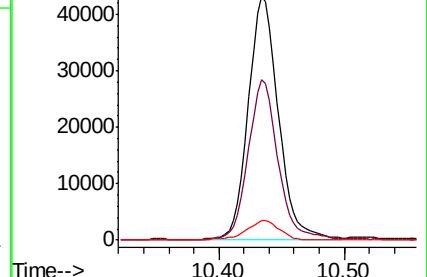
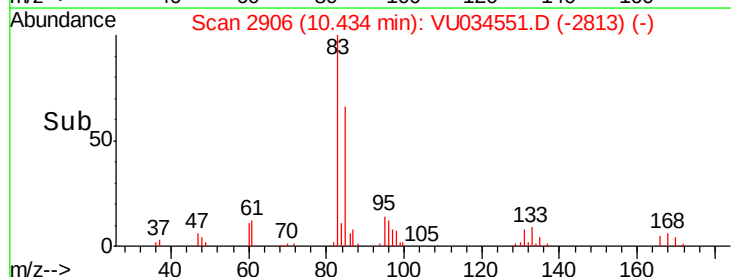
131 8.0 6.4 9.6

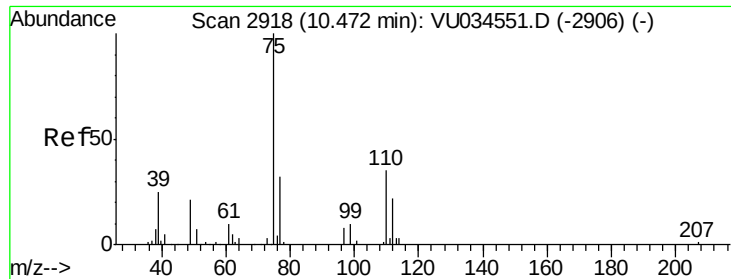


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.593 ug/L

RT: 10.47 min Scan# 2918

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

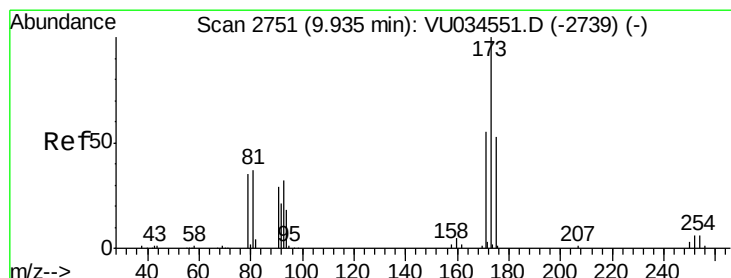
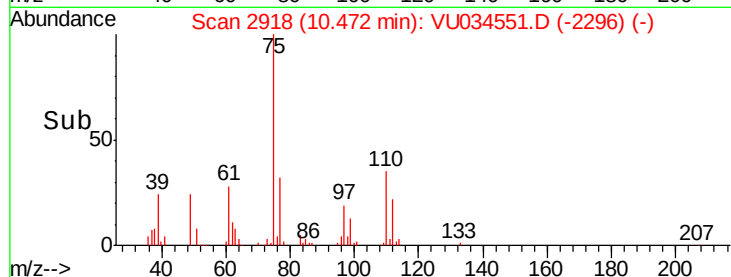
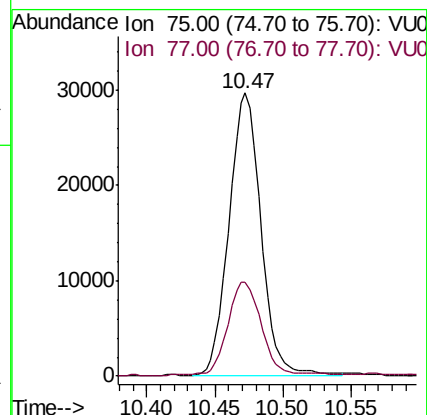
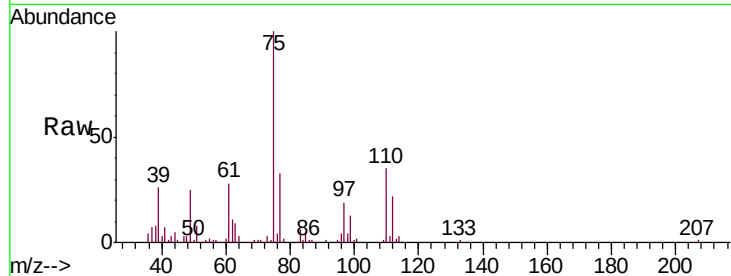
VSTD00504

Tgt Ion: 75 Resp: 48658

Ion Ratio Lower Upper

75 100

77 34.1 27.3 40.9



#61

Bromoform

Concen: 4.665 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

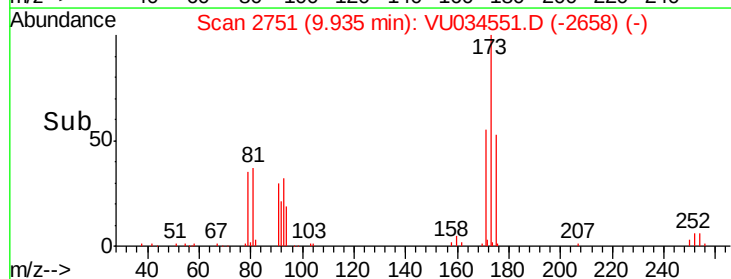
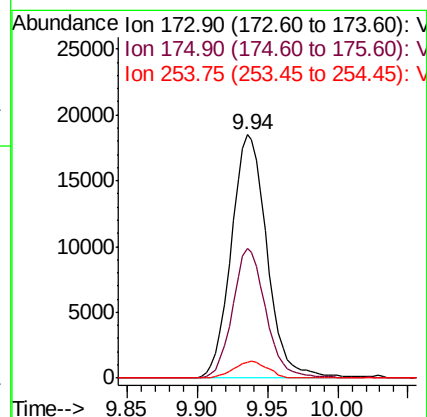
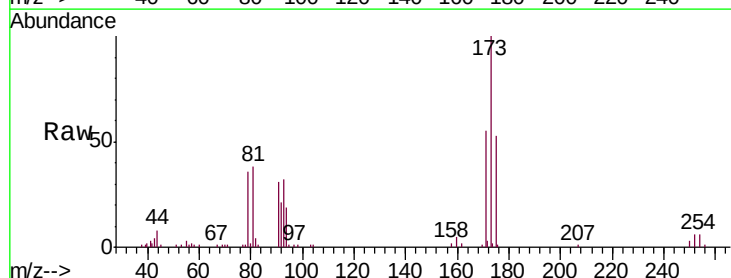
Tgt Ion: 173 Resp: 32720

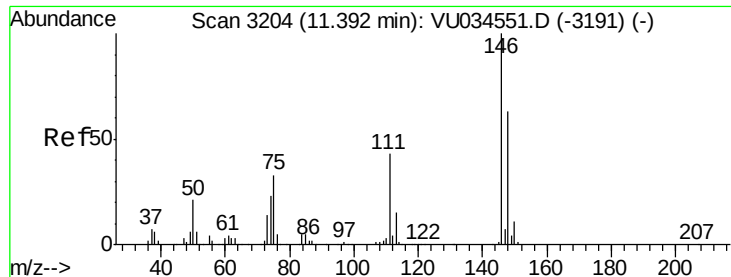
Ion Ratio Lower Upper

173 100

175 49.7 39.8 59.6

254 6.5 5.2 7.8





#62

1,3-Dichlorobenzene

Concen: 4.688 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampled :

VSTD00504

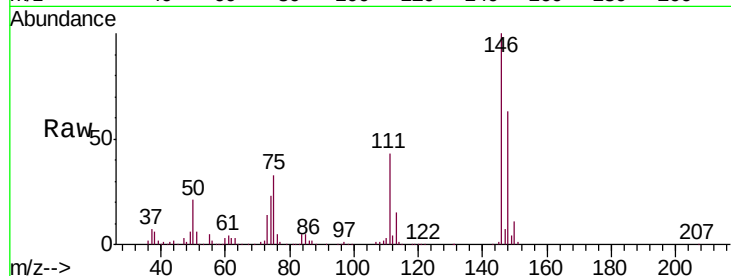
Tgt Ion:146 Resp: 135135

Ion Ratio Lower Upper

146 100

111 43.3 30.3 56.3

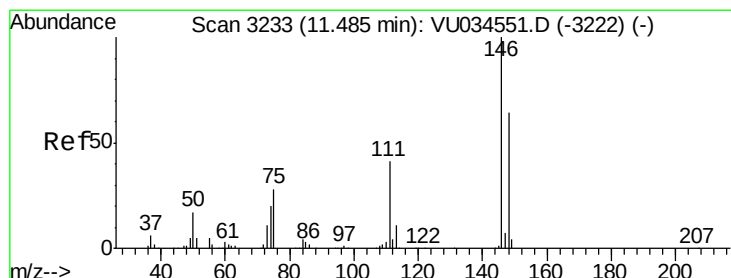
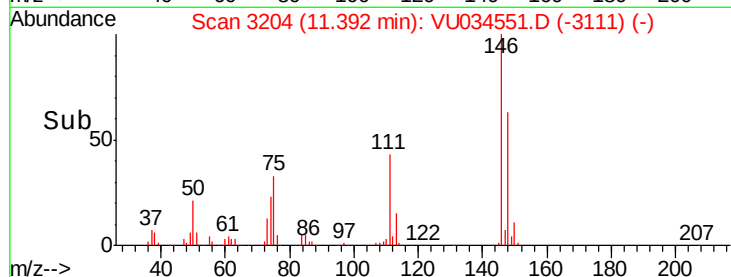
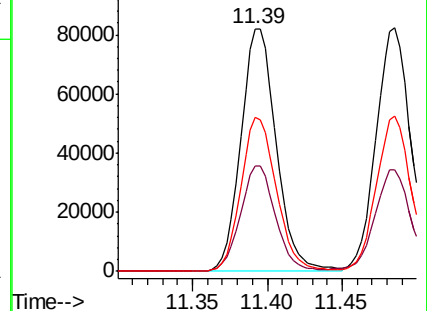
148 63.3 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.568 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

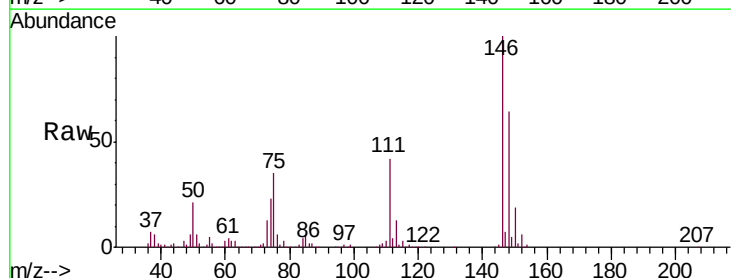
Tgt Ion:146 Resp: 136263

Ion Ratio Lower Upper

146 100

111 41.7 29.2 54.2

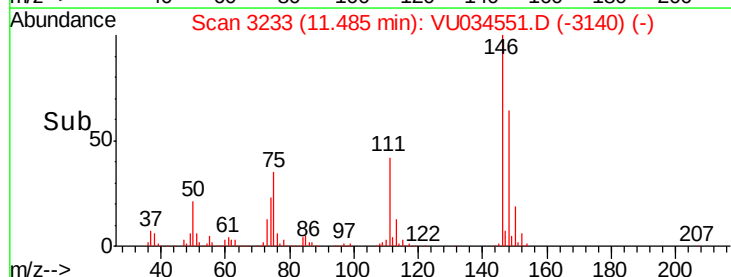
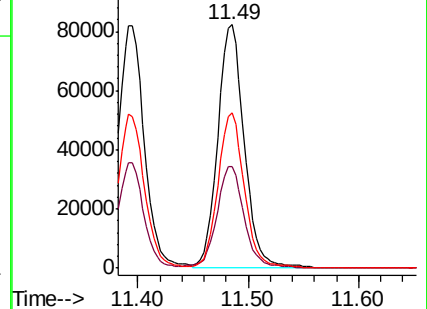
148 63.6 44.5 82.7

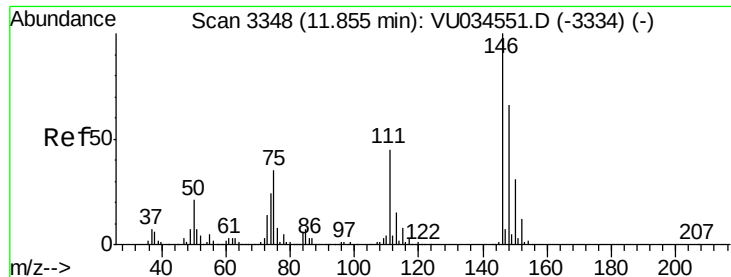


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

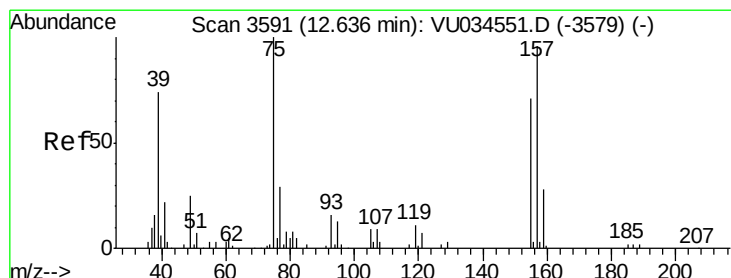
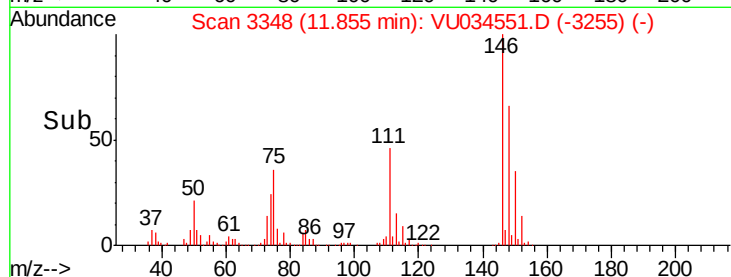
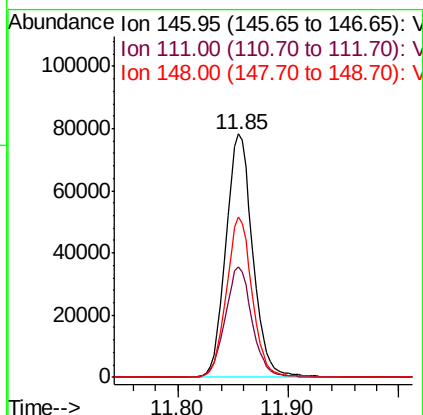
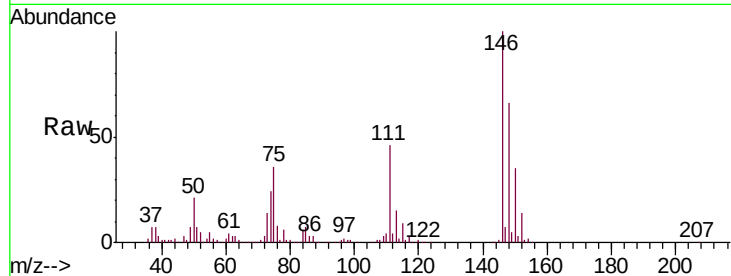




#65
 1,2-Dichlorobenzene
 Concen: 4.751 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. 0.00 min
 Lab File: VU034551.D
 Acq: 15 Sep 2019 08:49

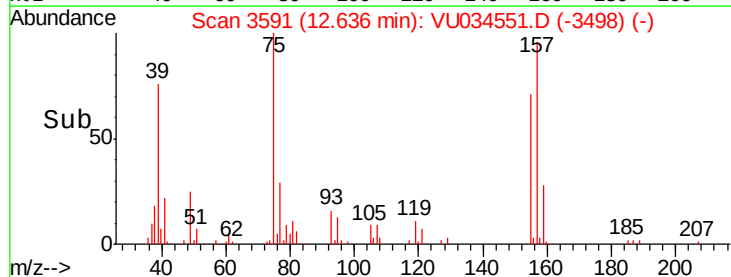
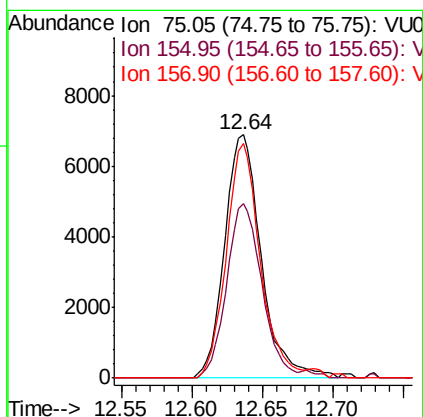
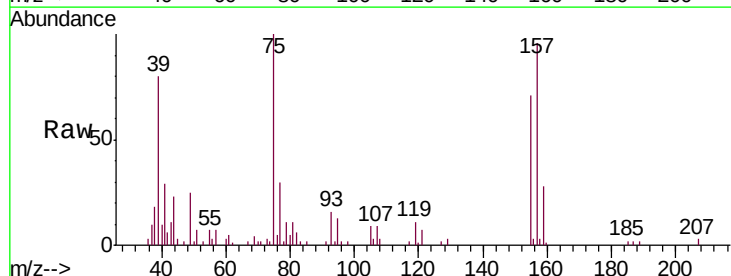
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00504

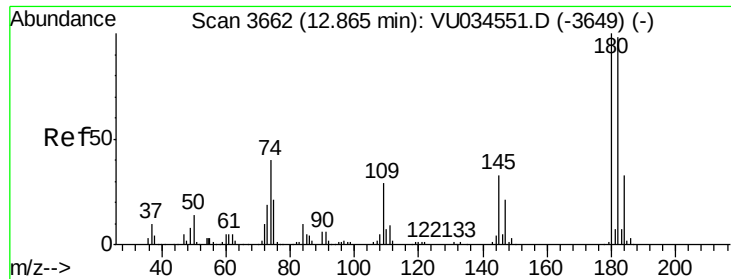
Tgt Ion: 146 Resp: 132232
 Ion Ratio Lower Upper
 146 100
 111 45.5 36.4 54.6
 148 65.7 52.6 78.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.518 ug/L
 RT: 12.64 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VU034551.D
 Acq: 15 Sep 2019 08:49

Tgt Ion: 75 Resp: 12515
 Ion Ratio Lower Upper
 75 100
 155 71.5 57.2 85.8
 157 96.2 77.0 115.4

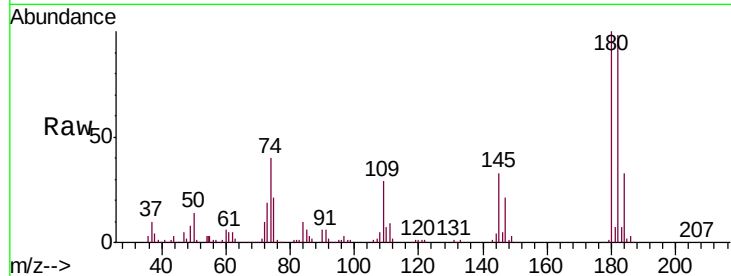




#67
 1,3,5-Trichlorobenzene
 Concen: 4.261 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VU034551.D
 Acq: 15 Sep 2019 08:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

Tgt Ion:	180	Resp:	94240
Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.9	113.9
184	30.2	24.2	36.2
145	32.4	25.9	38.9



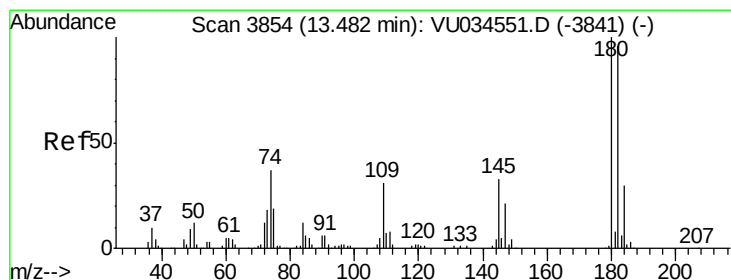
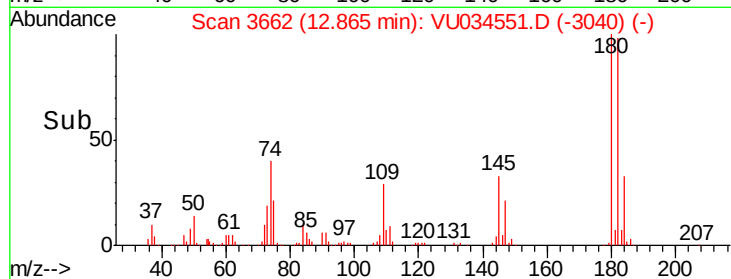
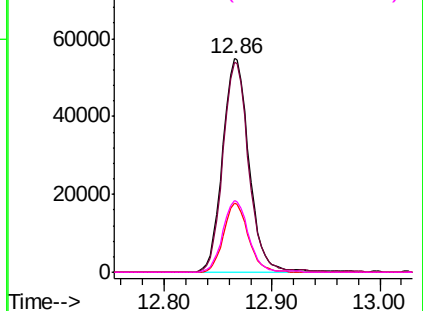
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

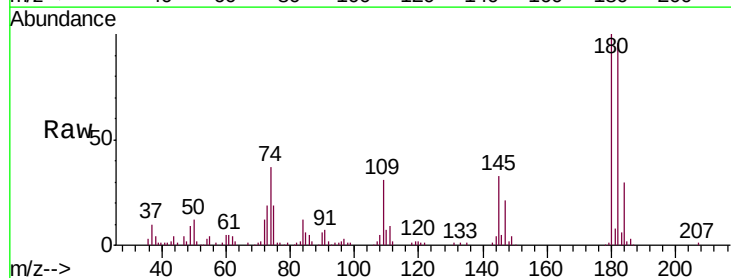
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.745 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. 0.00 min
 Lab File: VU034551.D
 Acq: 15 Sep 2019 08:49

Tgt Ion:	180	Resp:	79557
Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.1	114.1
145	33.8	27.0	40.6

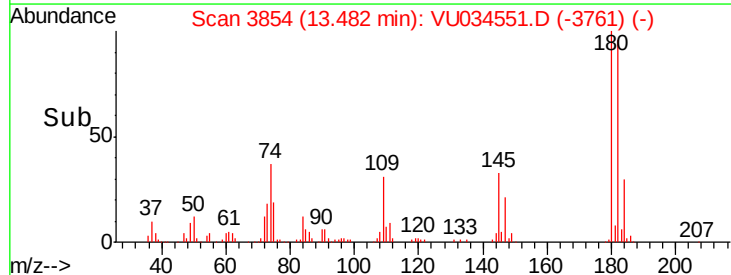
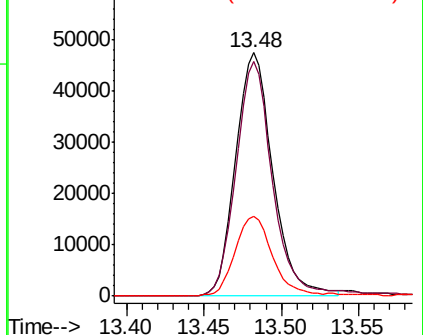


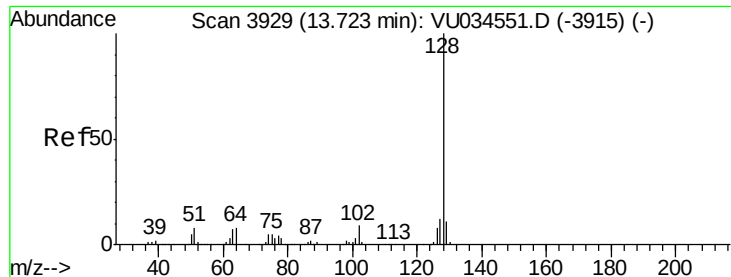
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 6.100 ug/L

RT: 13.72 min Scan# 3929

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

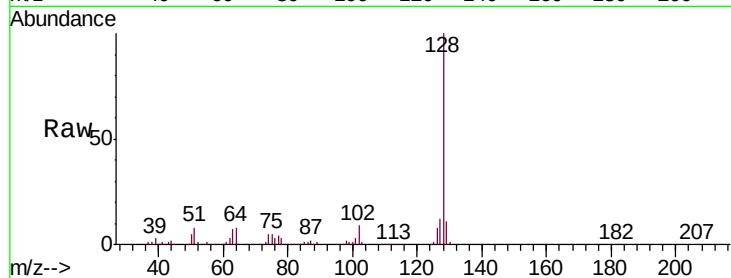
Tgt Ion:128 Resp: 170906

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

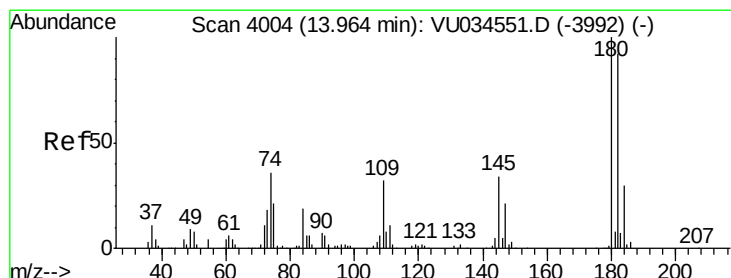
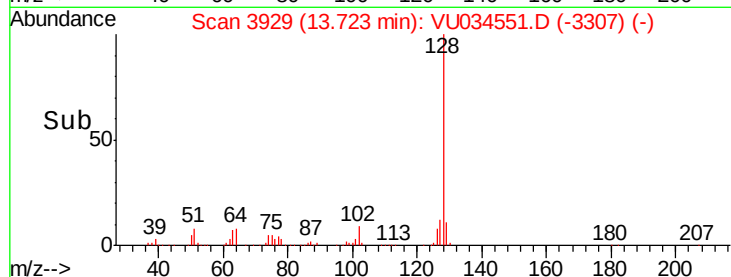
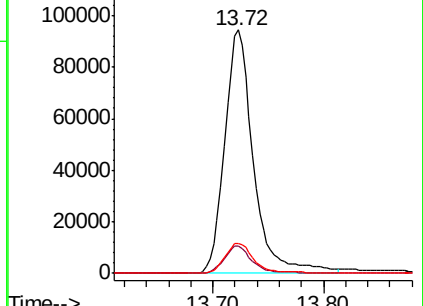
127 12.6 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.642 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. 0.00 min

Lab File: VU034551.D

Acq: 15 Sep 2019 08:49

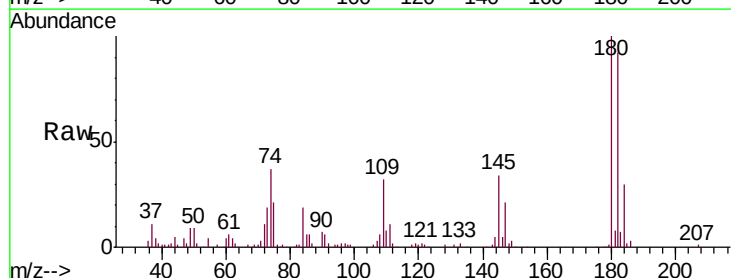
Tgt Ion:180 Resp: 74733

Ion Ratio Lower Upper

180 100

182 91.0 72.8 109.2

145 34.0 27.2 40.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

