

Data File : VU034949.D
Acq On : 07 Oct 2019 09:54
Operator : JC/SP
Sample : VSTD0.505
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

Quant Time: Oct 09 01:53:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 09 01:50:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	191338	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	189835	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	85820	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	5757	0.33	ug/L	0.00
7) Chloroethane-d5	1.67	69	4803	0.32	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	12337	0.36	ug/L	0.00
20) 2-Butanone-d5	4.19	46	14801	4.24	ug/L	0.01
24) Chloroform-d	4.62	84	10222	0.39	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	6557	0.45	ug/L	0.00
32) Benzene-d6	5.32	84	21185	0.42	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	7299	0.45	ug/L	0.00
41) Toluene-d8	7.55	98	19951	0.42	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	2296	0.36	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	9014	3.36	ug/L	0.02
57) 1,1,2,2-Tetrachloroethane-	10.41	84	6214	0.46	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	7481	0.46	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	8881	0.544	ug/L	98
3) Chloromethane	1.32	50	10441	0.557	ug/L	97
5) Vinyl chloride	1.40	62	9645	0.485	ug/L	92
6) Bromomethane	1.62	94	5160	0.420	ug/L	98
8) Chloroethane	1.69	64	5833	0.459	ug/L	98
9) Trichlorofluoromethane	1.88	101	12077	0.437	ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	7185	0.467	ug/L	97
12) 1,1-Dichloroethene	2.27	96	6421	0.432	ug/L	96
13) Acetone	2.32	43	15441	5.090	ug/L	97
14) Carbon disulfide	2.47	76	21497	0.446	ug/L #	90
15) Methyl Acetate	2.61	43	4287	0.568	ug/L #	68
16) Methylene chloride	2.68	84	9443	0.522	ug/L	91
17) Methyl tert-butyl Ether	2.99	73	17075	0.439	ug/L	95
18) trans-1,2-Dichloroethene	2.96	96	6906	0.422	ug/L	92
19) 1,1-Dichloroethane	3.42	63	13977	0.542	ug/L	98
21) 2-Butanone	4.28	43	17945	4.935	ug/L	97
22) cis-1,2-Dichloroethene	4.20	96	7713	0.536	ug/L	78
23) Bromochloromethane	4.52	128	2934	0.463	ug/L #	78
25) Chloroform	4.65	83	16885	0.587	ug/L	94
27) 1,2-Dichloroethane	5.39	62	8874	0.529	ug/L	98
29) 1,1,1-Trichloroethane	4.89	97	11069	0.513	ug/L	99
30) Cyclohexane	4.97	56	11792	0.581	ug/L	95
31) Carbon tetrachloride	5.11	117	9024	0.477	ug/L	97
33) Benzene	5.37	78	29712	0.552	ug/L	100
34) Trichloroethene	6.17	95	7836	0.550	ug/L	94
35) Methylcyclohexane	6.39	83	11828	0.544	ug/L	98
37) 1,2-Dichloropropane	6.41	63	8047	0.553	ug/L #	93
38) Bromodichloromethane	6.74	83	9404	0.514	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	10090	0.489	ug/L	95
40) 4-Methyl-2-pentanone	7.45	43	47108	5.582	ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	28613	0.496	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	7649	0.464	ug/L	93
45) 1,1,2-Trichloroethane	8.05	97	4963	0.482	ug/L	88
47) Tetrachloroethene	8.21	164	6639	0.581	ug/L	92
48) 2-Hexanone	8.36	43	31674	5.185	ug/L #	90
49) Dibromochloromethane	8.46	129	5726	0.466	ug/L	83
50) 1,2-Dibromoethane	8.58	107	4816	0.491	ug/L #	99
51) Chlorobenzene	9.10	112	20199	0.537	ug/L	95
52) Ethylbenzene	9.23	91	32325	0.522	ug/L	98
53) m,p-Xylene	9.36	106	11908	0.513	ug/L	89
54) o-Xylene	9.76	106	11347	0.511	ug/L	89
55) Styrene	9.78	104	16620	0.434	ug/L	93
56) Isopropylbenzene	10.14	105	30503	0.515	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.44	83	7130	0.539	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	5104	0.541	ug/L	97
61) Bromoform	9.94	173	3151	0.547	ug/L #	91
62) 1,3-Dichlorobenzene	11.40	146	14010	0.547	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	14593	0.546	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	13594	0.537	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	654	0.348	ug/L #	75
67) 1,3,5-Trichlorobenzene	12.87	180	8517	0.432	ug/L	95
68) 1,2,4-trichlorobenzene	13.50	180	2694	0.173	ug/L #	66
69) Naphthalene	13.75	128	4004	0.154	ug/L #	89
70) 1,2,3-Trichlorobenzene	13.98	180	4677	0.318	ug/L #	78

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

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```
ALS Vial      : 3      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

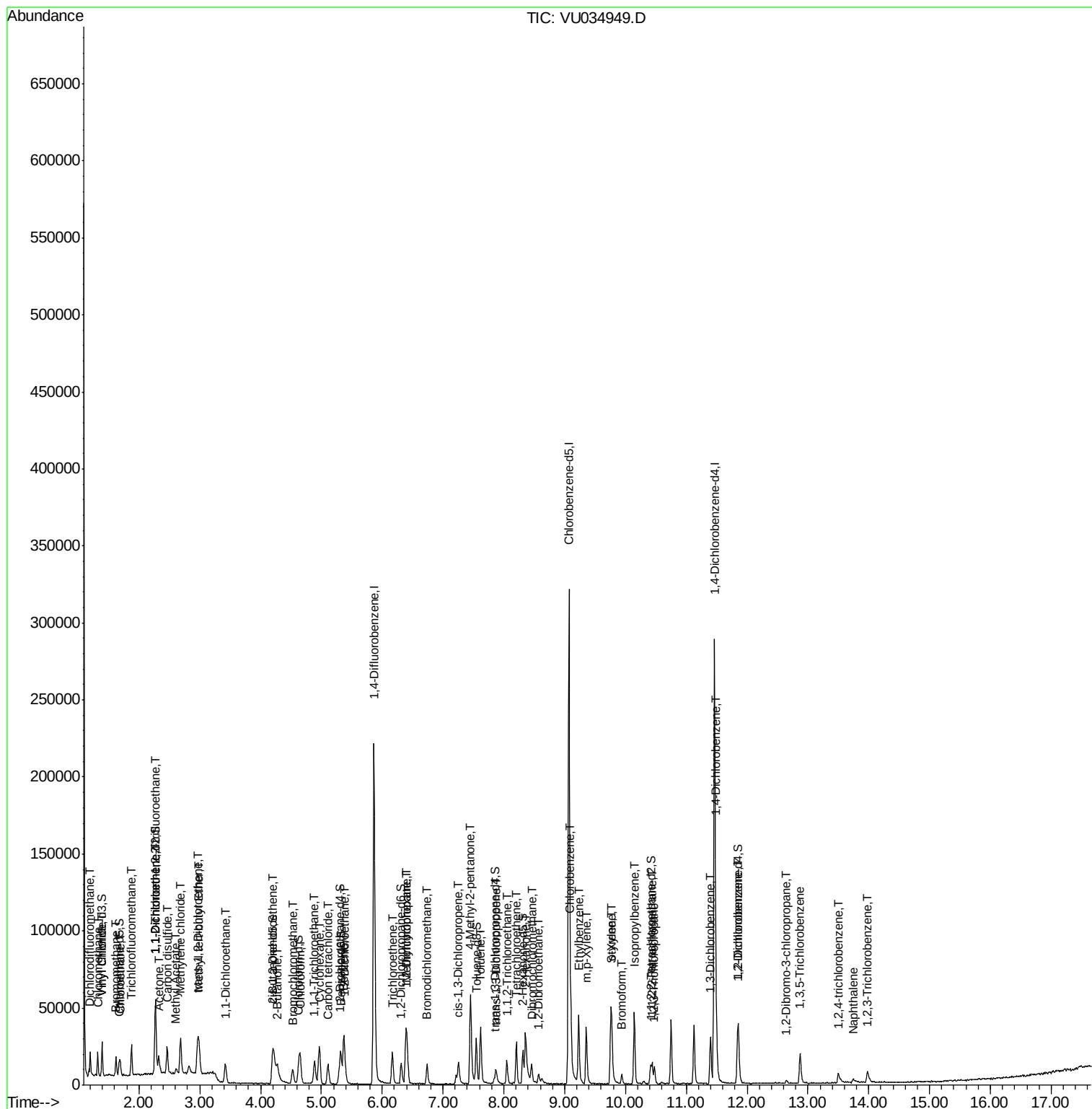
Quant Time: Oct 09 01:53:27 2019

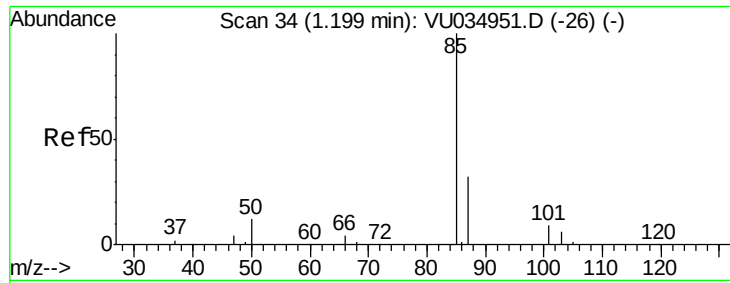
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR100719WMA.M

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#2

Dichlorodifluoromethane

Concen: 0.544 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

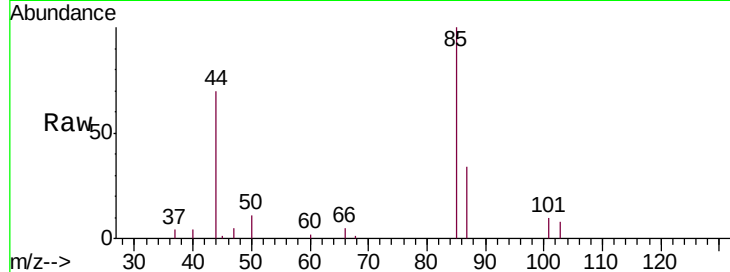
VSTD0.505

Tgt Ion: 85 Resp: 8881

Ion Ratio Lower Upper

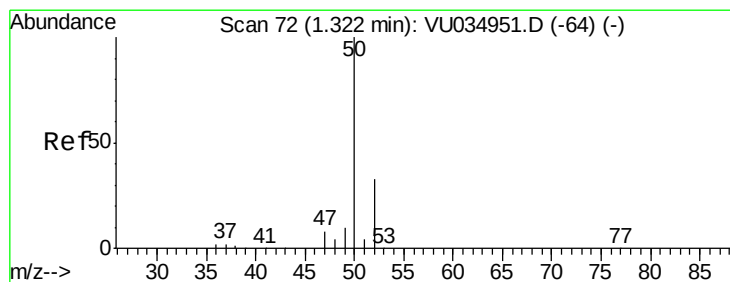
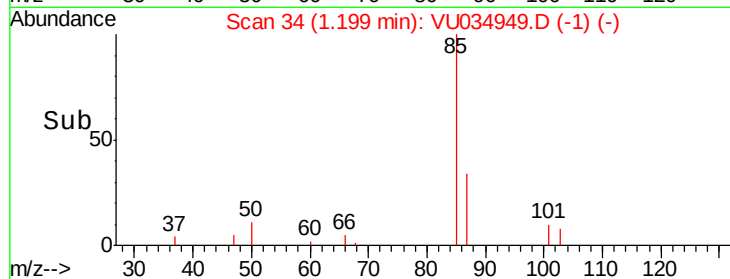
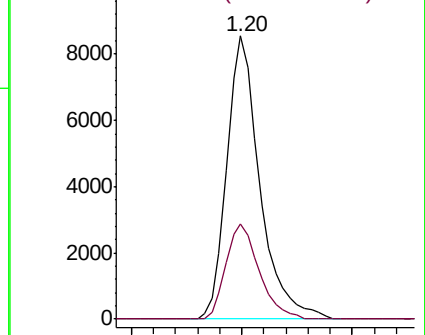
85 100

87 33.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU034949.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU034949.D (-1) (-)



#3

Chloromethane

Concen: 0.557 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034949.D

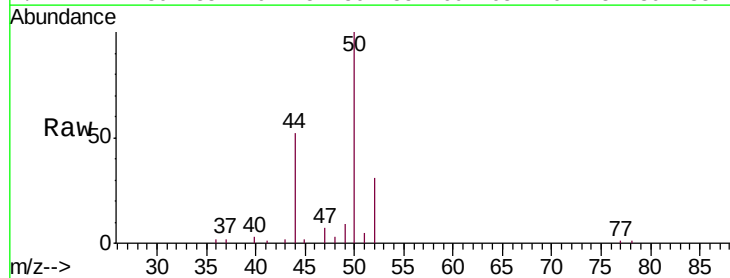
Acq: 07 Oct 2019 09:54

Tgt Ion: 50 Resp: 10441

Ion Ratio Lower Upper

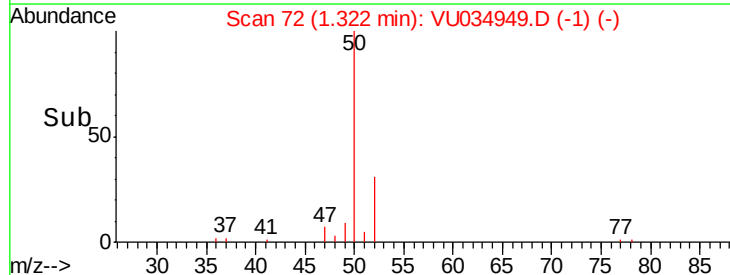
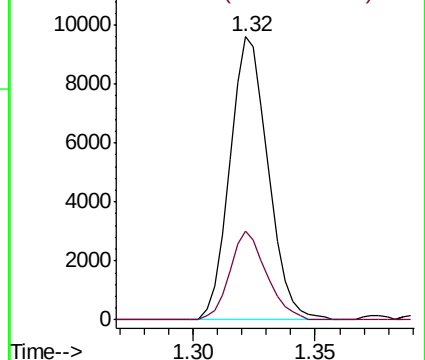
50 100

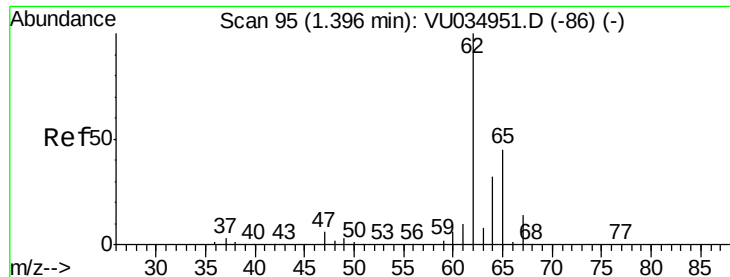
52 31.2 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU034949.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU034949.D (-1) (-)





#5

Vinyl chloride

Concen: 0.485 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

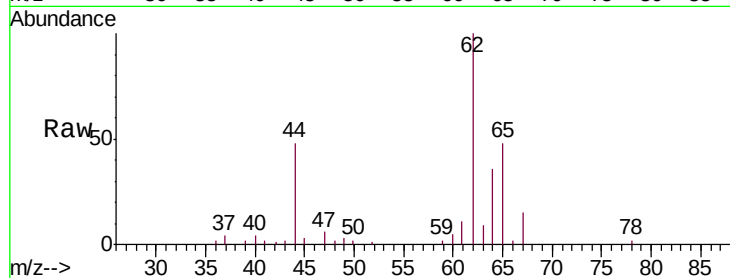
VSTD0.505

Tgt Ion: 62 Resp: 9645

Ion Ratio Lower Upper

62 100

64 36.4 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.40

10000

8000

6000

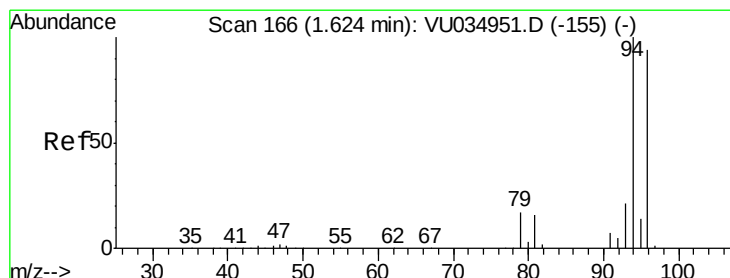
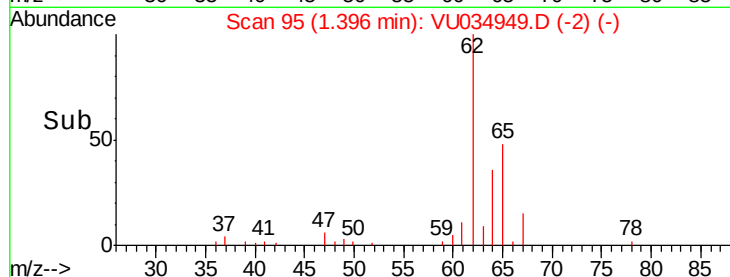
4000

2000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 0.420 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU034949.D

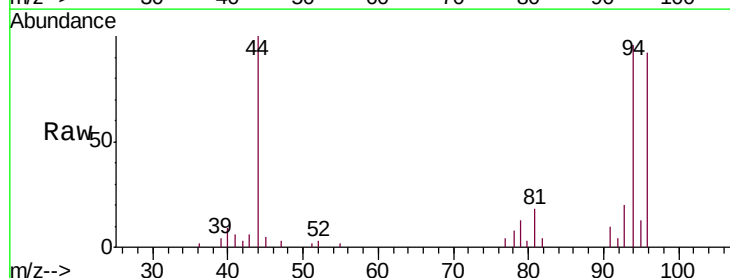
Acq: 07 Oct 2019 09:54

Tgt Ion: 94 Resp: 5160

Ion Ratio Lower Upper

94 100

96 95.8 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

4000

3000

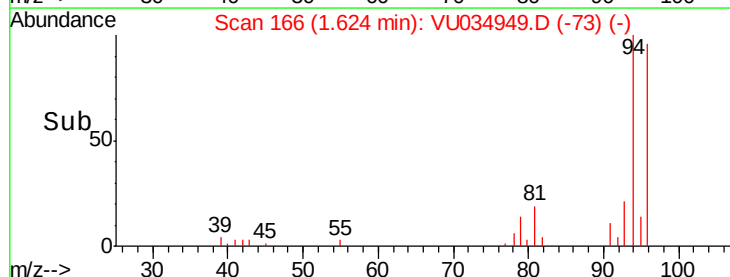
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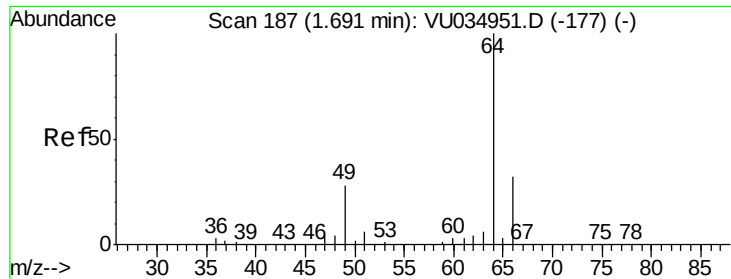
1000

0

Time-->

1.60 1.65





#8

Chloroethane

Concen: 0.459 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

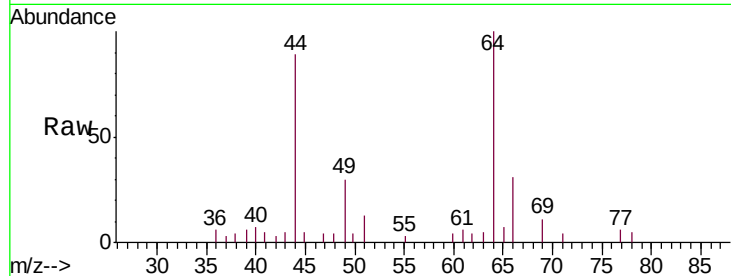
VSTD0.505

Tgt Ion: 64 Resp: 5833

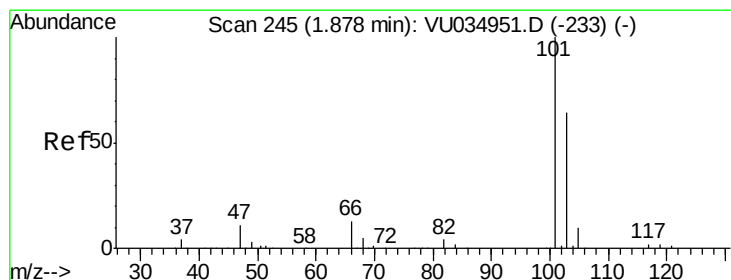
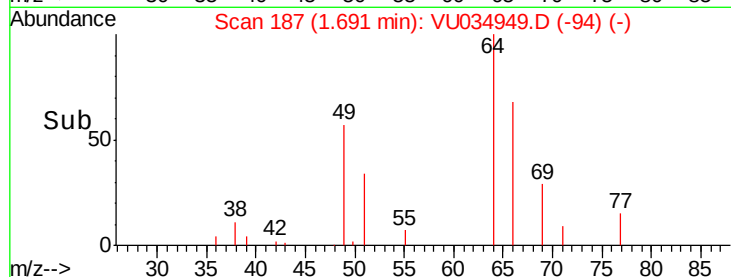
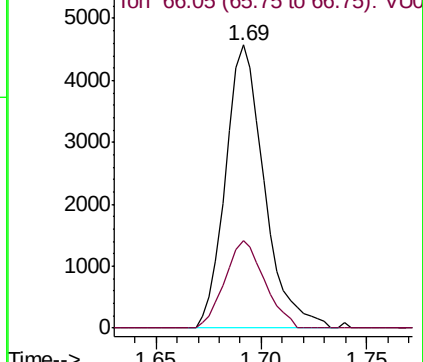
Ion Ratio Lower Upper

64 100

66 30.8 22.4 41.6



Abundance Ion 64.10 (63.80 to 64.80): VU034949.D (-94) (-)



#9

Trichlorofluoromethane

Concen: 0.437 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU034949.D

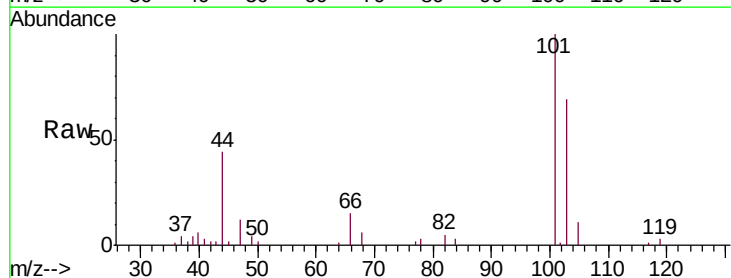
Acq: 07 Oct 2019 09:54

Tgt Ion: 101 Resp: 12077

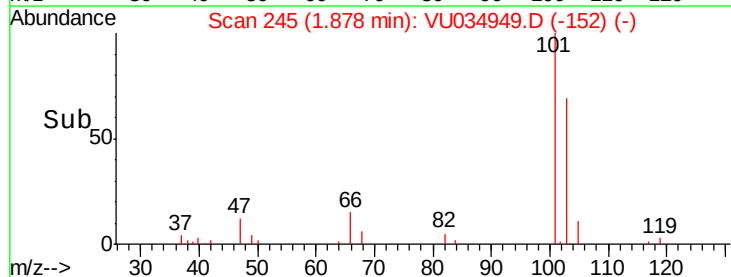
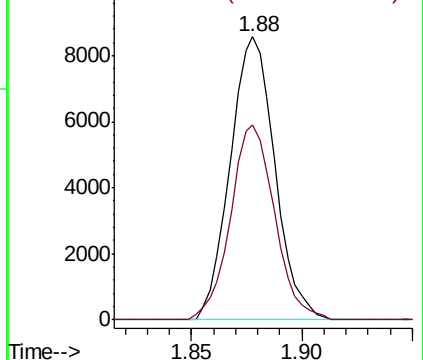
Ion Ratio Lower Upper

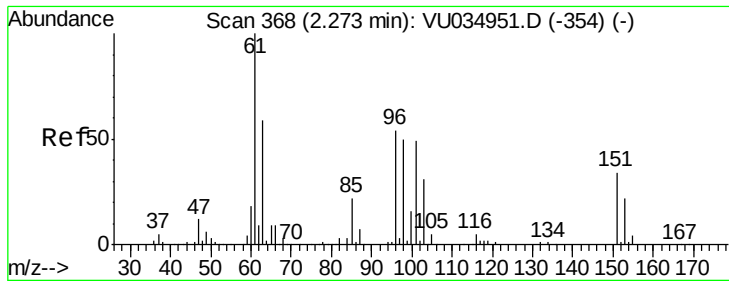
101 100

103 68.1 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU034949.D (-152) (-)





#10

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

Concen: 0.467 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

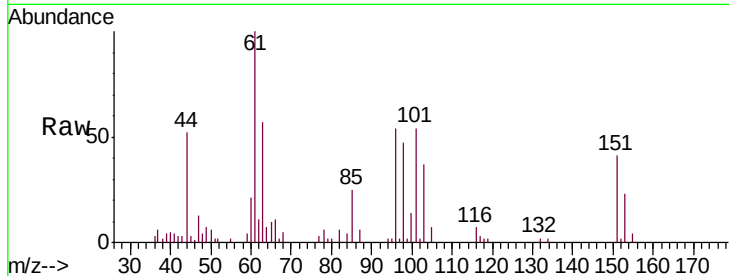
Tgt Ion:101 Resp: 7185

Ion Ratio Lower Upper

101 100

85 46.9 36.7 55.1

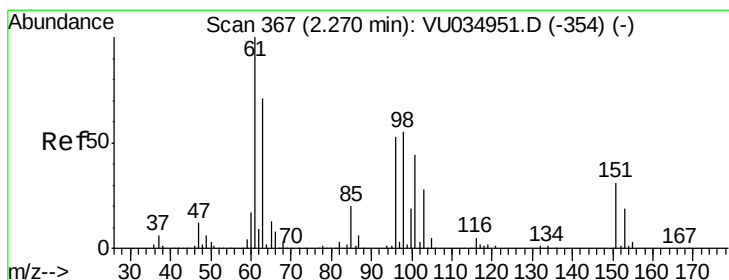
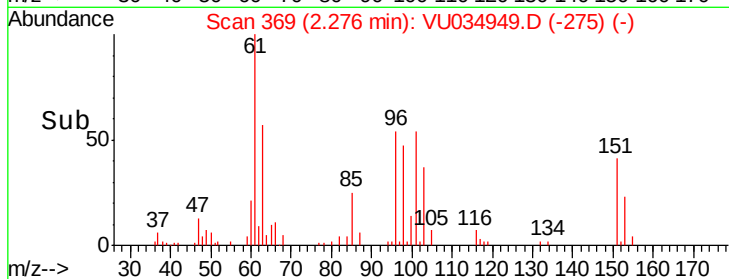
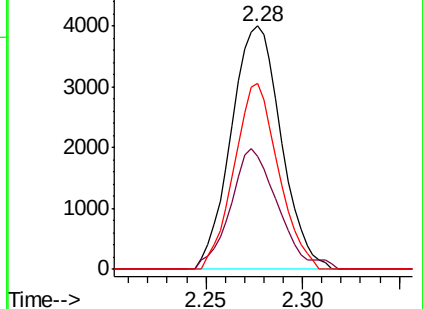
151 67.7 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.432 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

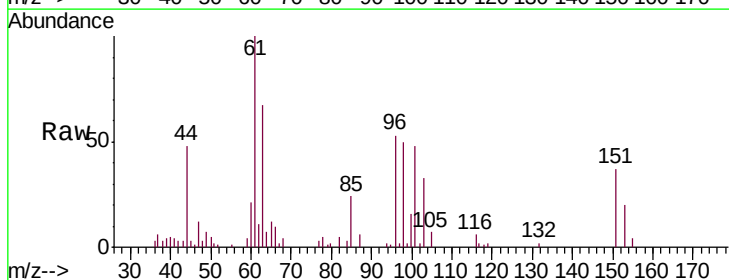
Tgt Ion: 96 Resp: 6421

Ion Ratio Lower Upper

96 100

61 188.0 132.6 246.2

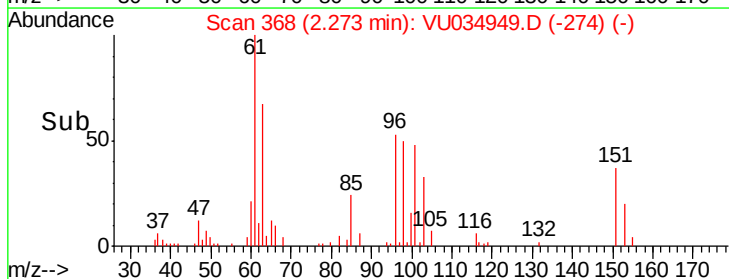
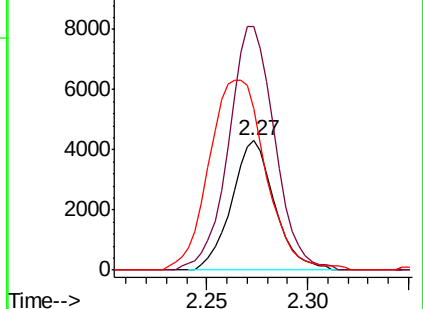
63 125.2 94.3 175.1

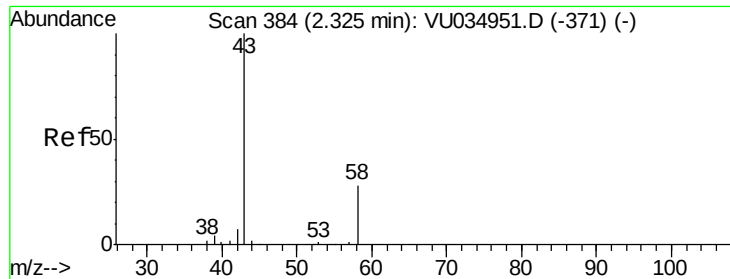


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.090 ug/L

RT: 2.32 min Scan# 384

Delta R.T. -0.00 min

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Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

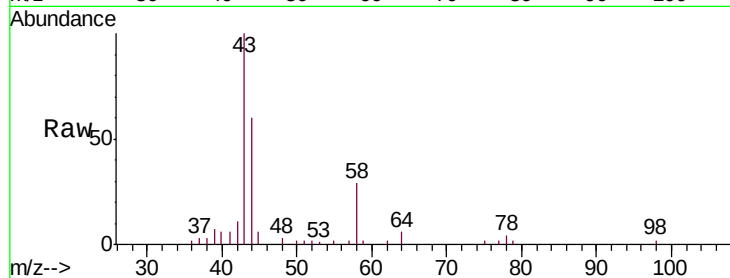
VSTD0.505

Tgt Ion: 43 Resp: 15441

Ion Ratio Lower Upper

43 100

58 31.9 0.0 60.8



Abundance Ion 43.05 (42.75 to 43.75): VU034949.D (-371) (-)

Ion 58.05 (57.75 to 58.75): VU034949.D (-371) (-)

2.32

8000

6000

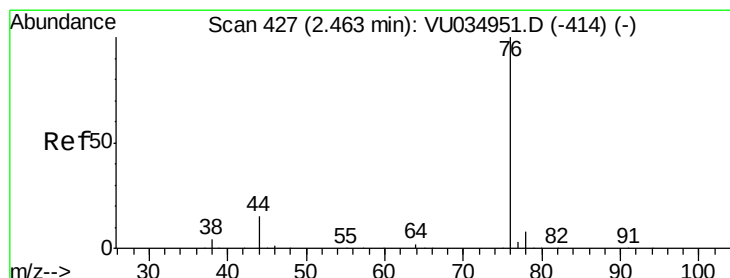
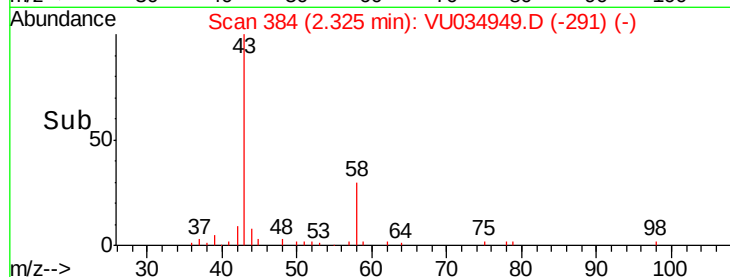
4000

2000

0

Time-->

2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 0.446 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU034949.D

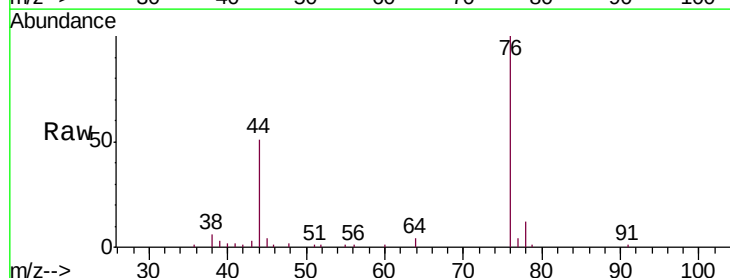
Acq: 07 Oct 2019 09:54

Tgt Ion: 76 Resp: 21497

Ion Ratio Lower Upper

76 100

78 12.2 6.9 10.3#



Abundance Ion 76.05 (75.75 to 76.75): VU034949.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU034949.D (-334) (-)

2.47

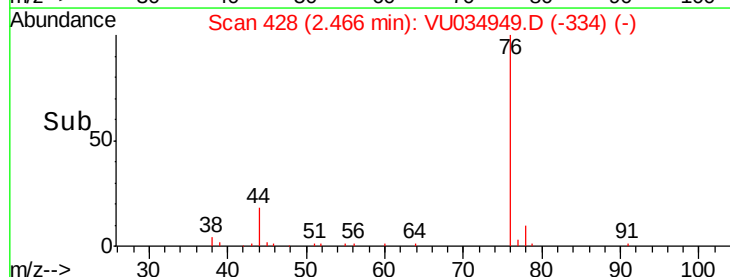
10000

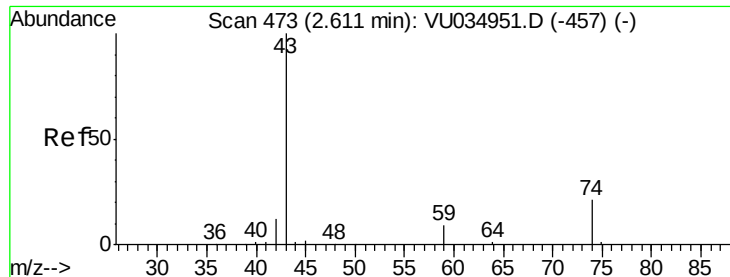
5000

0

Time-->

2.40 2.45 2.50 2.55

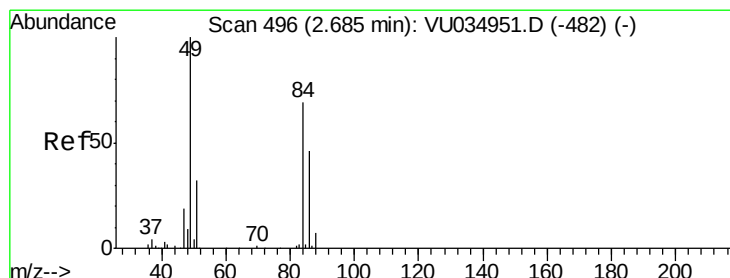
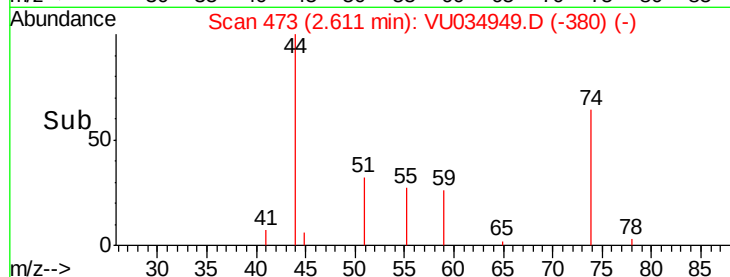
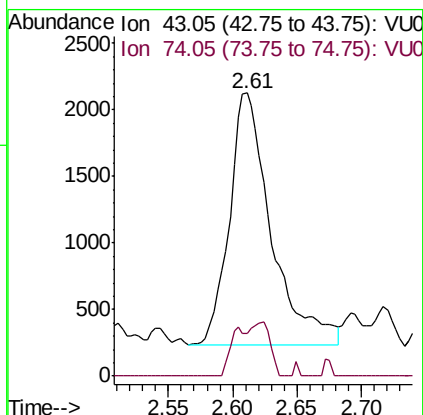
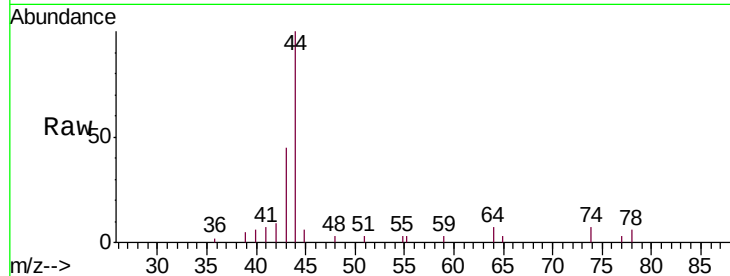




#15
Methyl Acetate
Concen: 0.568 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

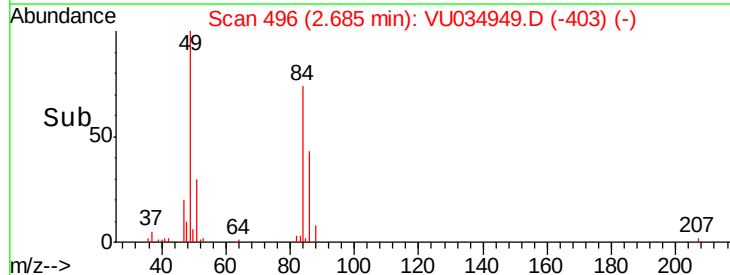
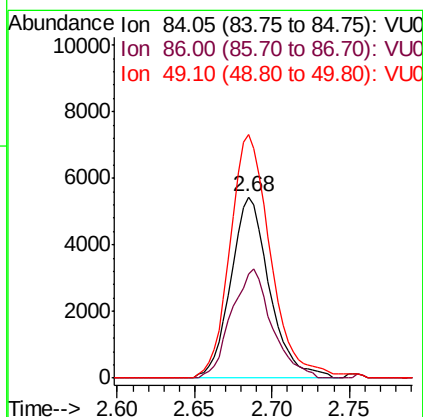
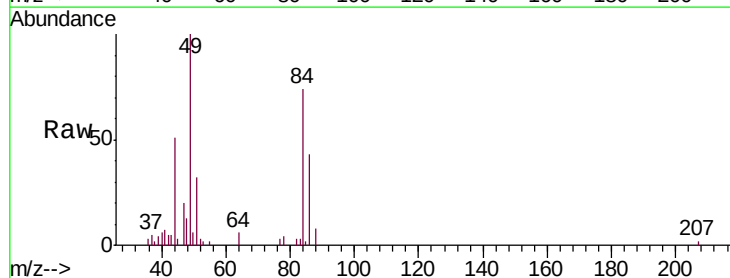
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

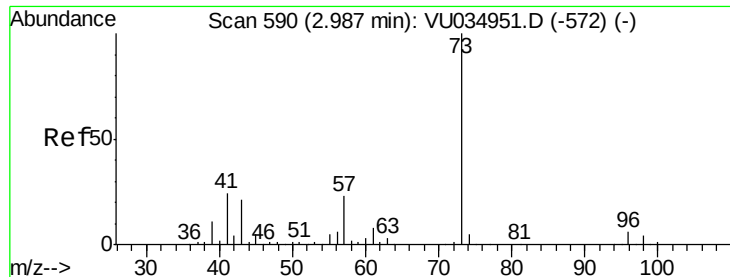
Tgt Ion: 43 Resp: 4287
Ion Ratio Lower Upper
43 100
74 6.1 17.0 25.4#



#16
Methylene chloride
Concen: 0.522 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Tgt Ion: 84 Resp: 9443
Ion Ratio Lower Upper
84 100
86 57.1 46.3 86.1
49 134.4 101.4 188.4

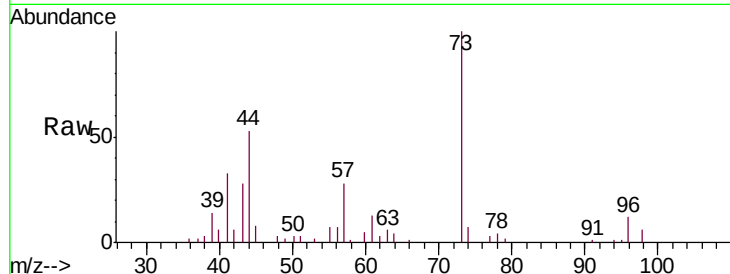




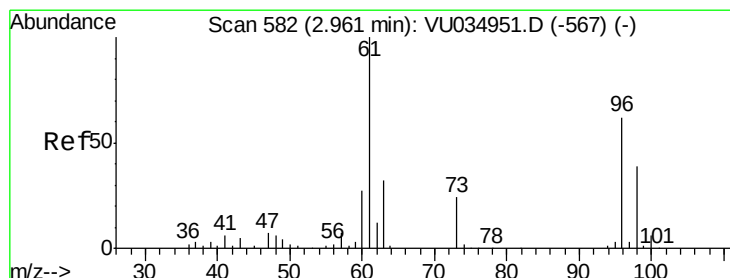
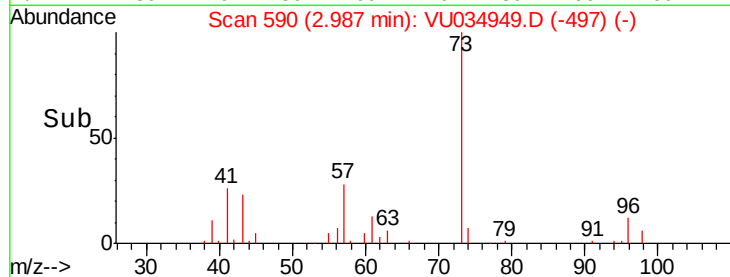
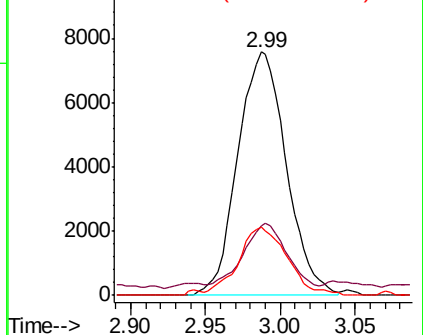
#17
Methyl tert-butyl Ether
Concen: 0.439 ug/L
RT: 2.99 min Scan# 590
Delta R.T. -0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

Tgt Ion: 73 Resp: 17075
Ion Ratio Lower Upper
73 100
43 22.0 17.4 26.0
57 28.2 19.2 28.8

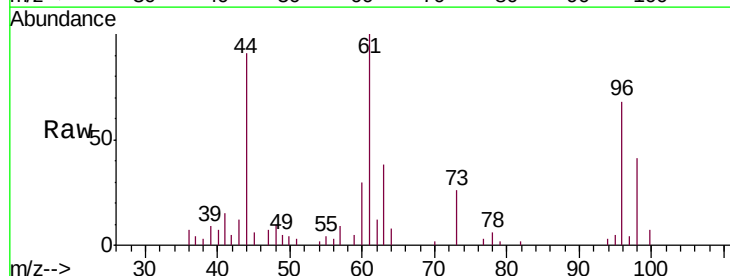


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

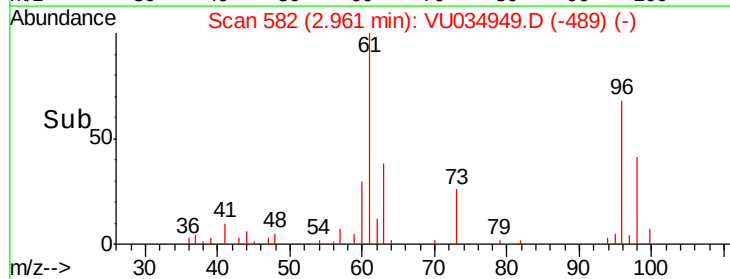
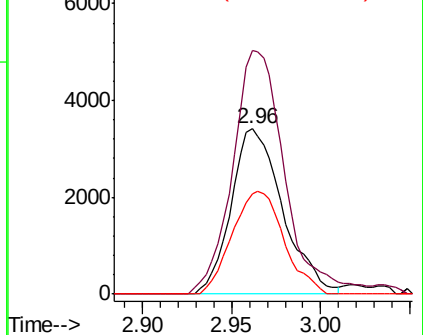


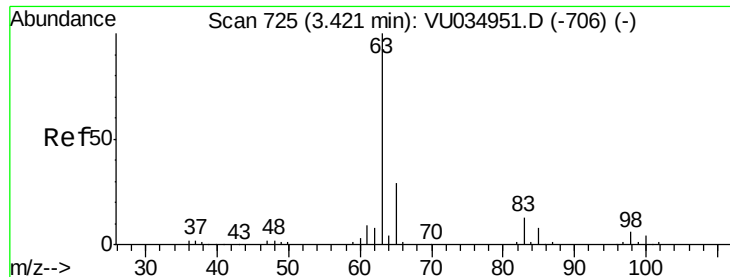
#18
trans-1,2-Dichloroethene
Concen: 0.422 ug/L
RT: 2.96 min Scan# 582
Delta R.T. -0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Tgt Ion: 96 Resp: 6906
Ion Ratio Lower Upper
96 100
61 147.4 112.3 208.7
98 60.5 43.5 80.9



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

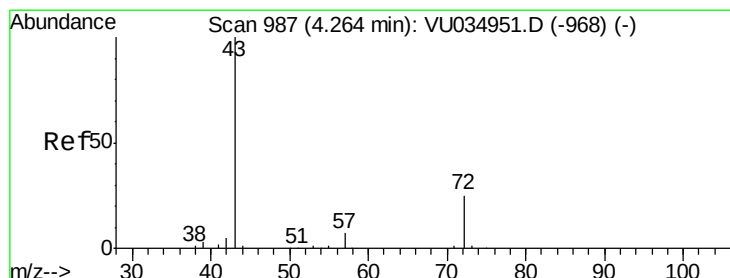
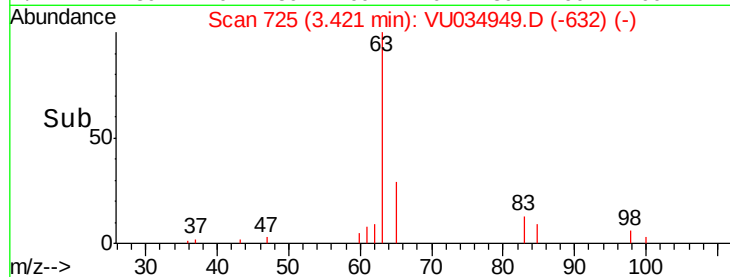
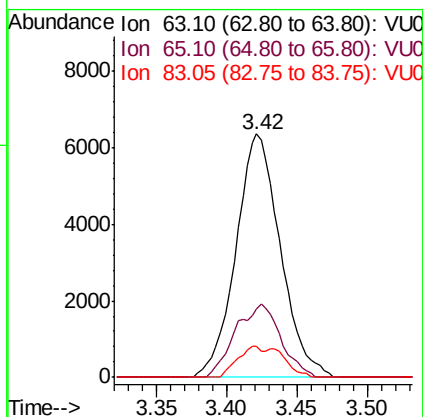
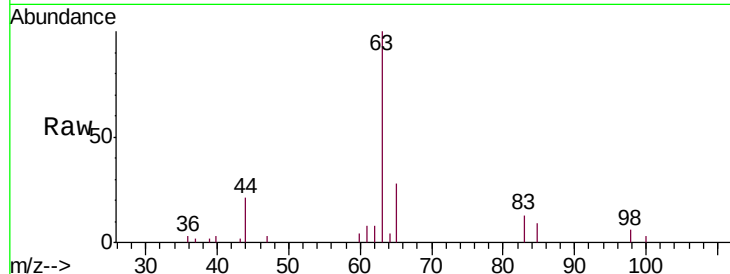




#19
 1,1-Dichloroethane
 Concen: 0.542 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

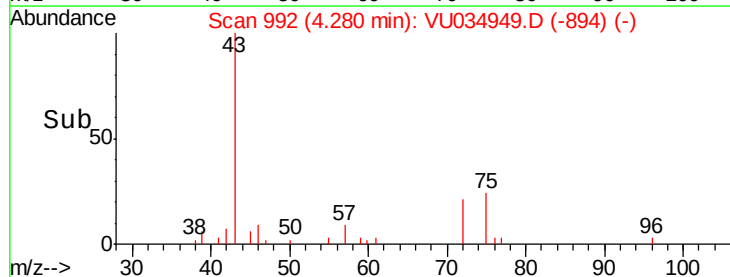
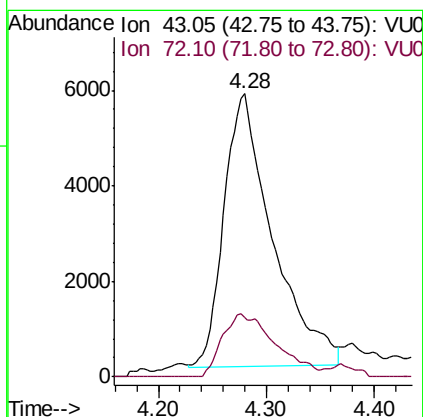
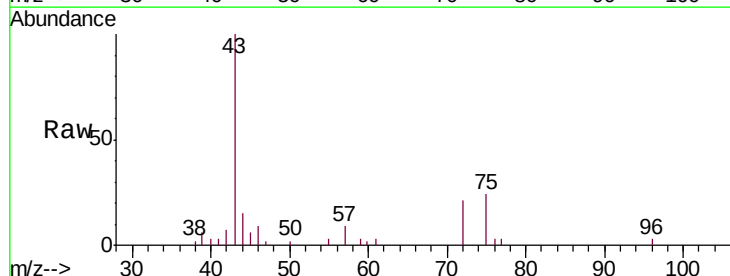
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

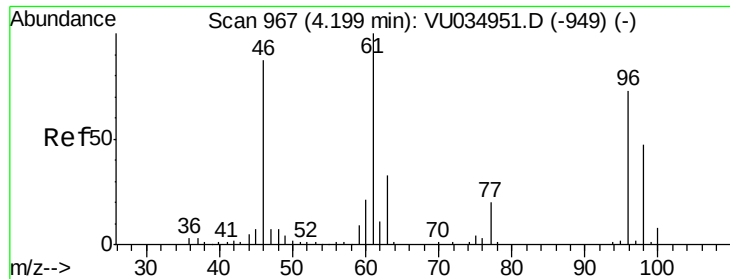
Tgt Ion: 63 Resp: 13977
 Ion Ratio Lower Upper
 63 100
 65 28.2 20.4 38.0
 83 12.6 9.3 17.3



#21
 2-Butanone
 Concen: 4.935 ug/L
 RT: 4.28 min Scan# 992
 Delta R.T. 0.02 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Tgt Ion: 43 Resp: 17945
 Ion Ratio Lower Upper
 43 100
 72 25.5 12.0 36.0



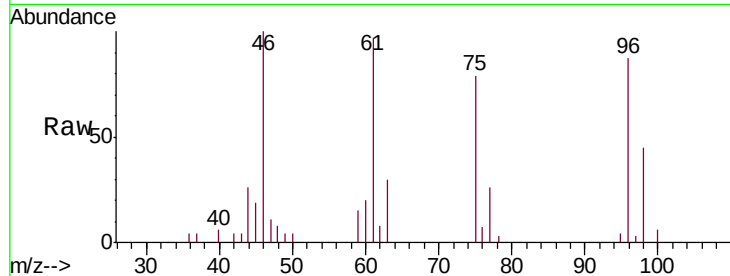


#22

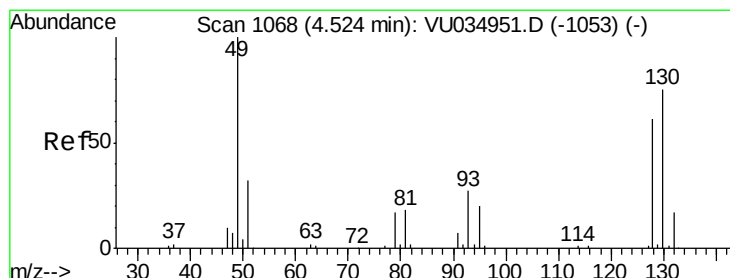
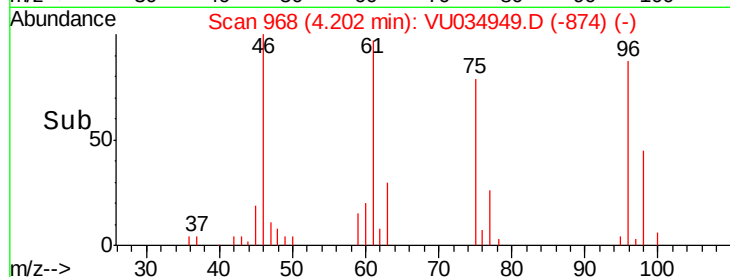
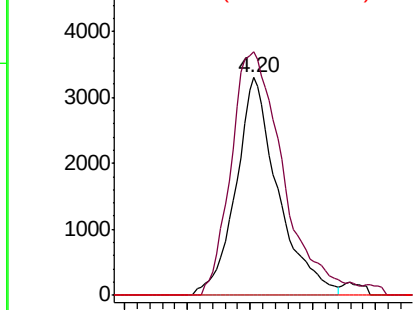
cis-1,2-Dichloroethene
 Concen: 0.536 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

Tgt Ion: 96 Resp: 7713
 Ion Ratio Lower Upper
 96 100
 61 111.7 96.4 179.0
 68 0.0 0.0 0.0



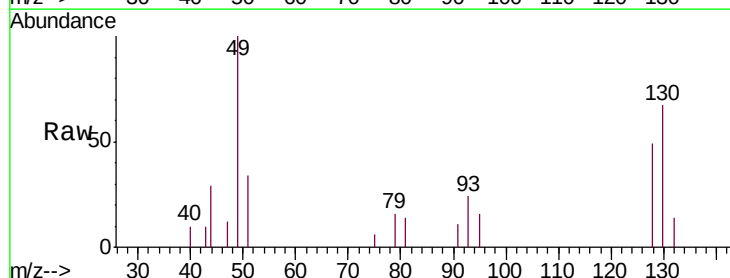
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



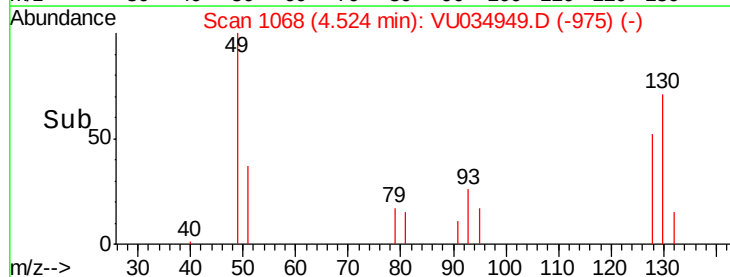
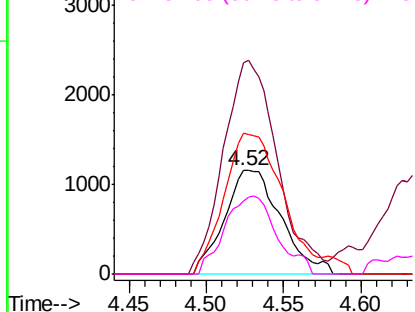
#23

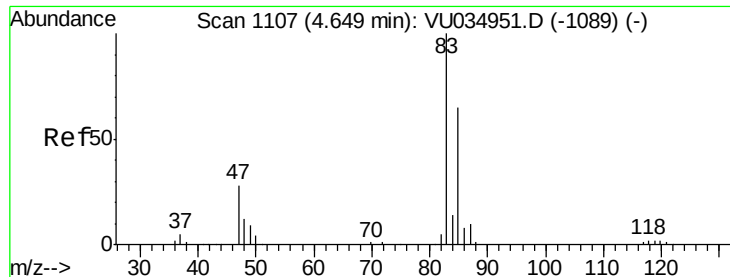
Bromochloromethane
 Concen: 0.463 ug/L
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Tgt Ion: 128 Resp: 2934
 Ion Ratio Lower Upper
 128 100
 49 204.2 116.0 215.4
 130 136.0 86.4 160.4
 51 69.8 41.6 62.4#



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

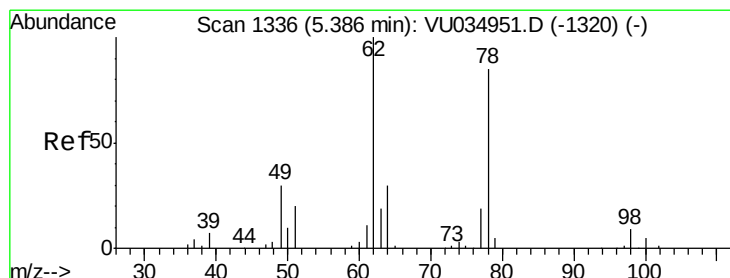
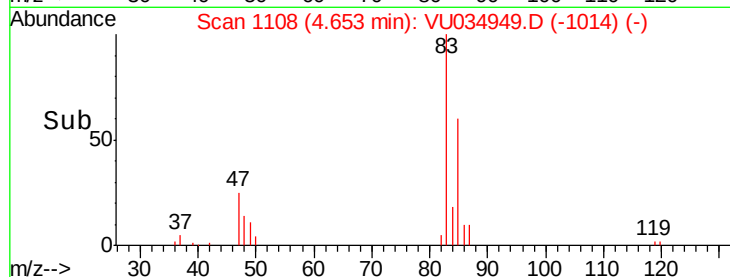
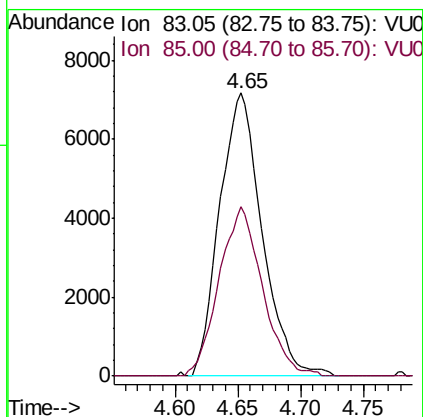
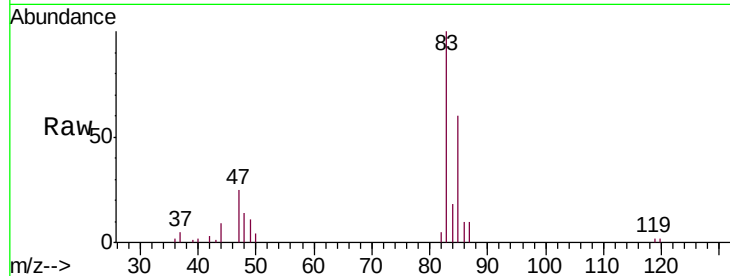




#25
Chloroform
Concen: 0.587 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

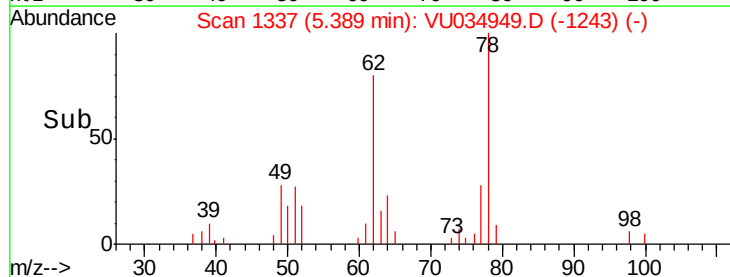
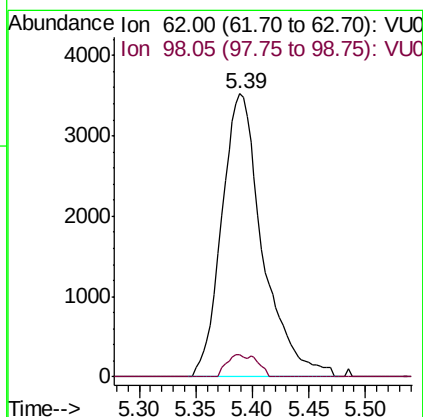
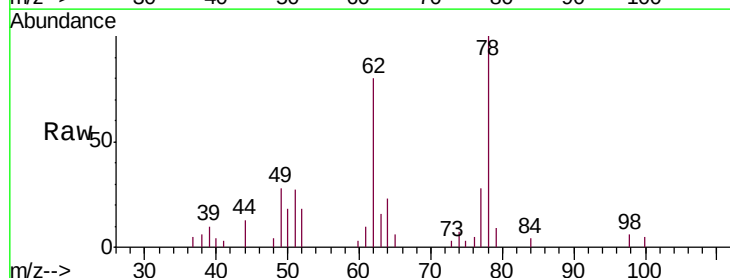
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

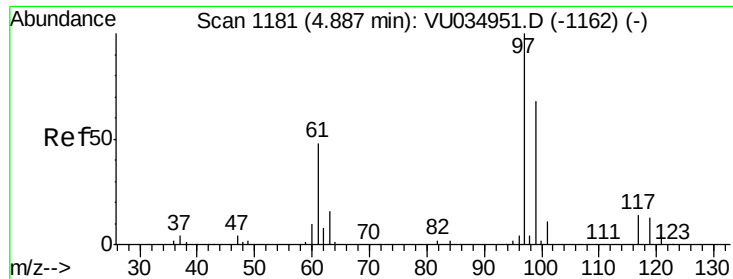
Tgt Ion: 83 Resp: 16885
Ion Ratio Lower Upper
83 100
85 59.8 45.4 84.4



#27
1,2-Dichloroethane
Concen: 0.529 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Tgt Ion: 62 Resp: 8874
Ion Ratio Lower Upper
62 100
98 7.8 6.8 10.2

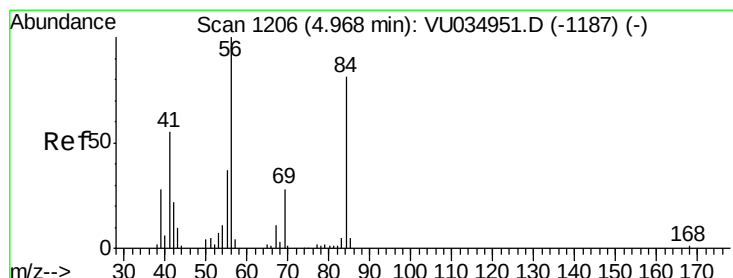
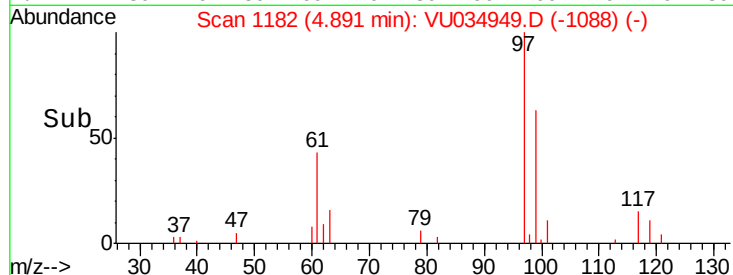
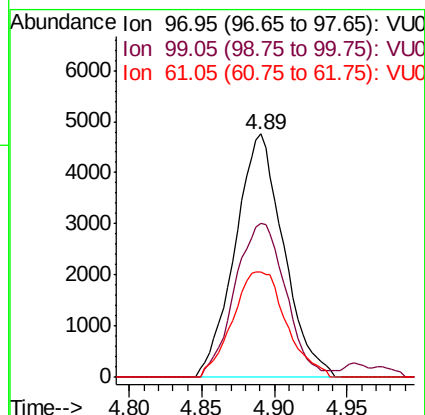
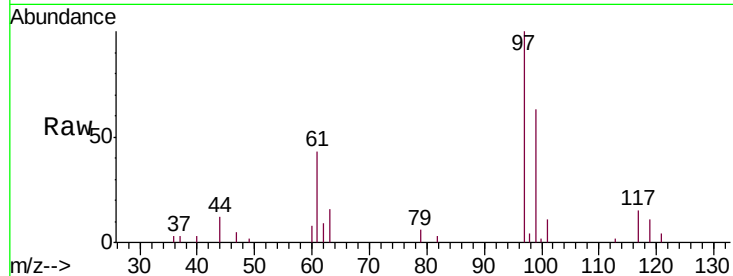




#29
 1,1,1-Trichloroethane
 Concen: 0.513 ug/L
 RT: 4.89 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

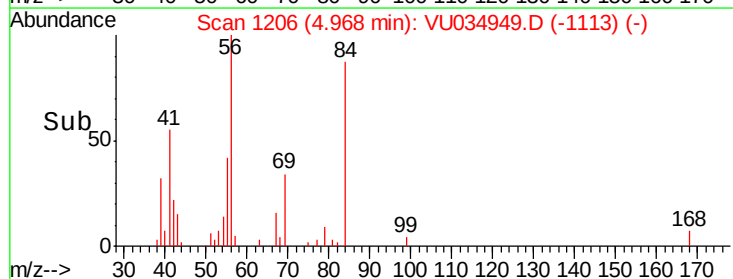
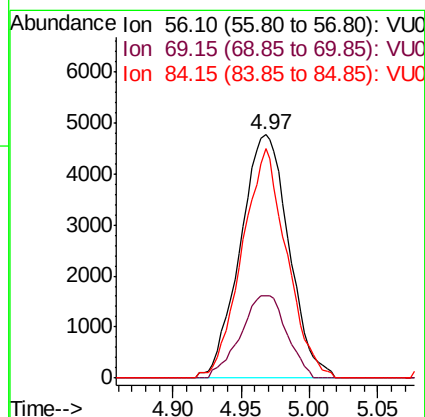
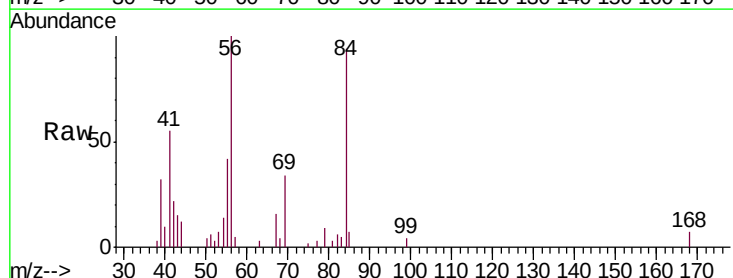
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

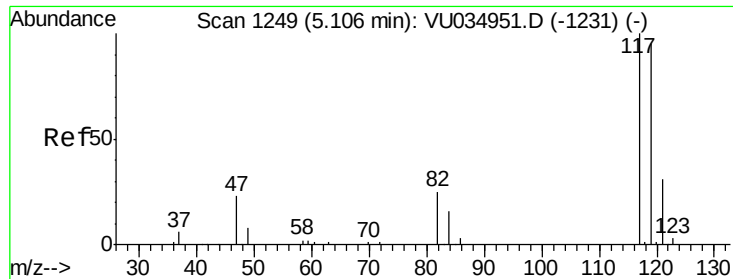
Tgt Ion: 97 Resp: 11069
 Ion Ratio Lower Upper
 97 100
 99 66.5 52.3 78.5
 61 47.7 39.0 58.4



#30
 Cyclohexane
 Concen: 0.581 ug/L
 RT: 4.97 min Scan# 1206
 Delta R.T. -0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Tgt Ion: 56 Resp: 11792
 Ion Ratio Lower Upper
 56 100
 69 32.0 23.4 35.0
 84 86.8 66.2 99.2





#31

Carbon tetrachloride

Concen: 0.477 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

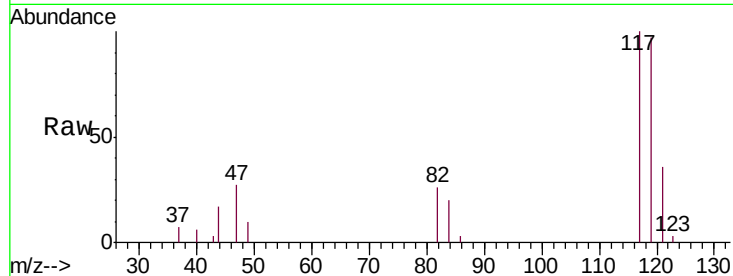
VSTD0.505

Tgt Ion:117 Resp: 9024

Ion Ratio Lower Upper

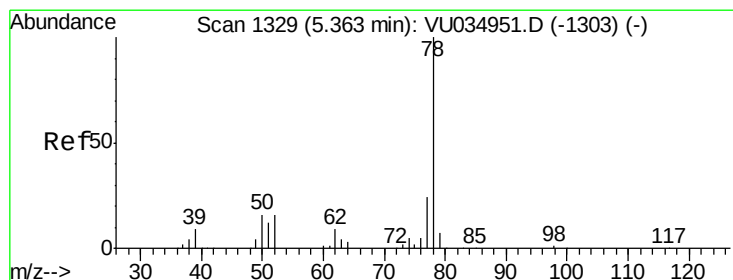
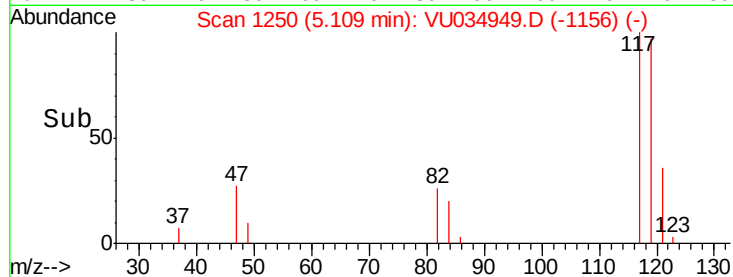
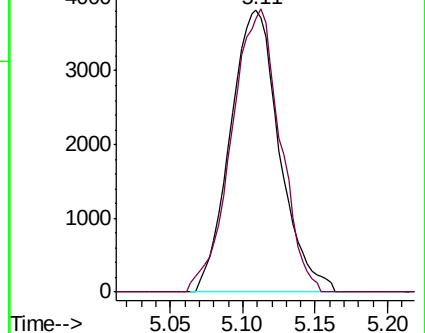
117 100

119 99.0 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.552 ug/L

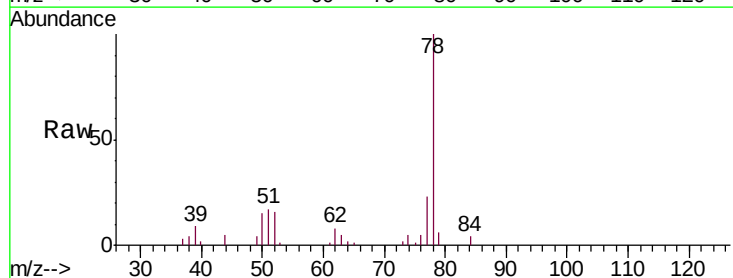
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

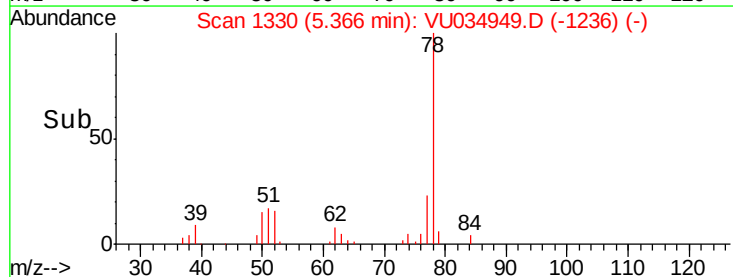
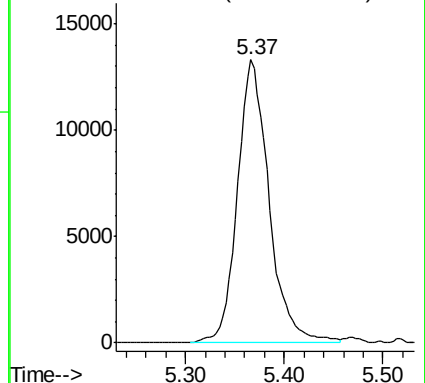
Lab File: VU034949.D

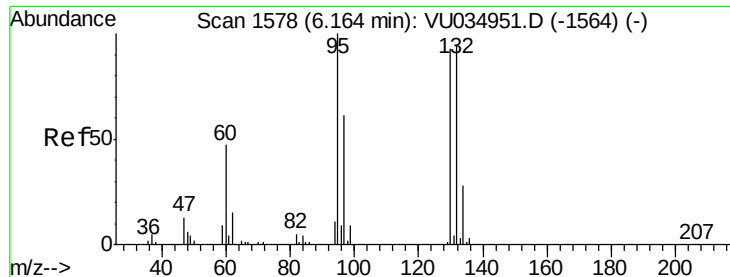
Acq: 07 Oct 2019 09:54

Tgt Ion: 78 Resp: 29712



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.550 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

Tgt Ion: 95 Resp: 7836

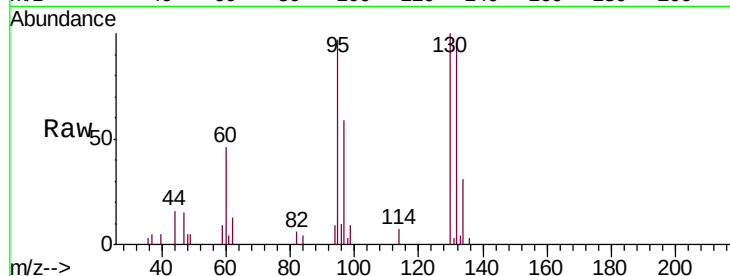
Ion Ratio Lower Upper

95 100

97 60.4 42.5 78.9

132 98.3 65.8 122.2

130 102.6 65.0 120.8

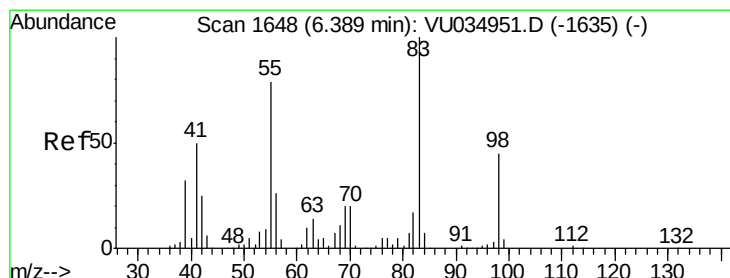
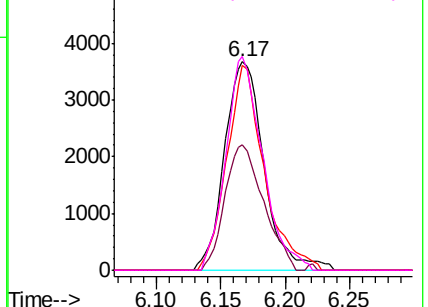
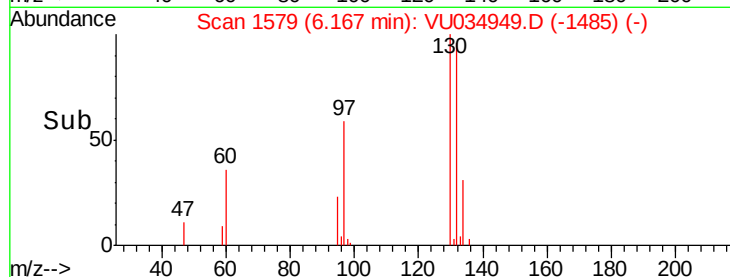


Abundance Ion 95.00 (94.70 to 95.70): VU034949.D (-1564) (-)

Ion 96.95 (96.65 to 97.65): VU034949.D (-1564) (-)

Ion 131.95 (131.65 to 132.65): VU034949.D (-1564) (-)

Ion 129.95 (129.65 to 130.65): VU034949.D (-1564) (-)



#35

Methylcyclohexane

Concen: 0.544 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

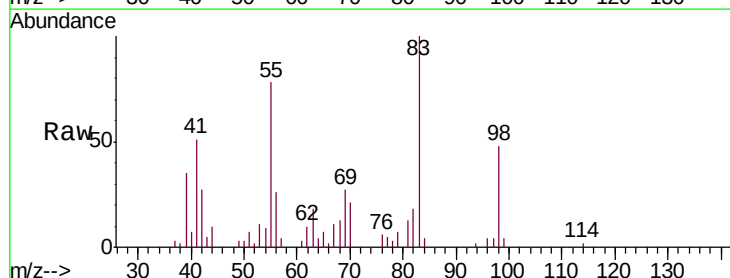
Tgt Ion: 83 Resp: 11828

Ion Ratio Lower Upper

83 100

55 80.1 62.4 93.6

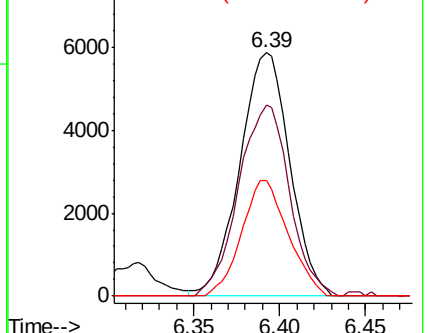
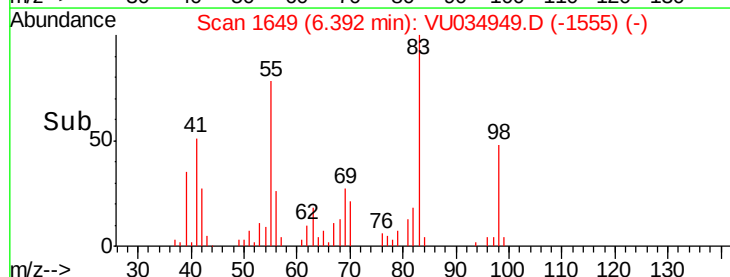
98 44.3 35.5 53.3

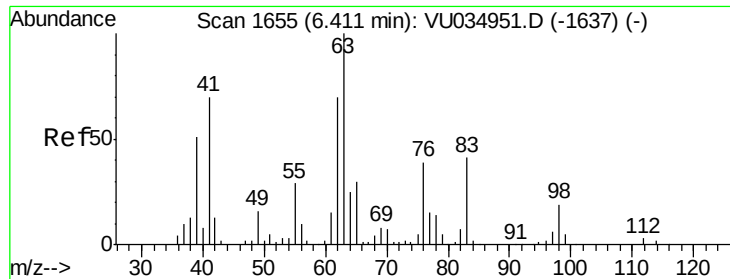


Abundance Ion 83.15 (82.85 to 83.85): VU034949.D (-1555) (-)

Ion 55.10 (54.80 to 55.80): VU034949.D (-1555) (-)

Ion 98.15 (97.85 to 98.85): VU034949.D (-1555) (-)

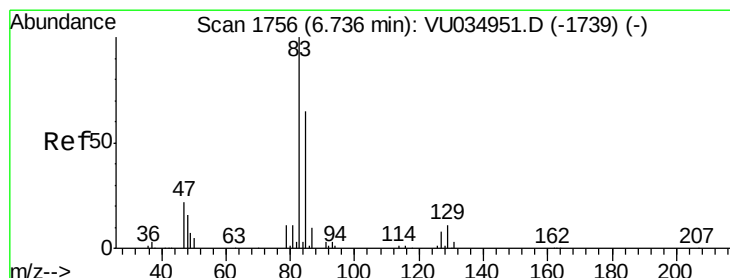
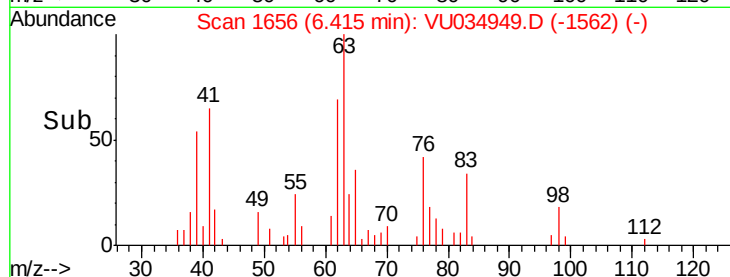
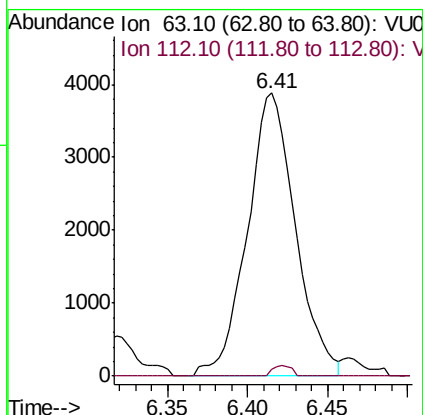
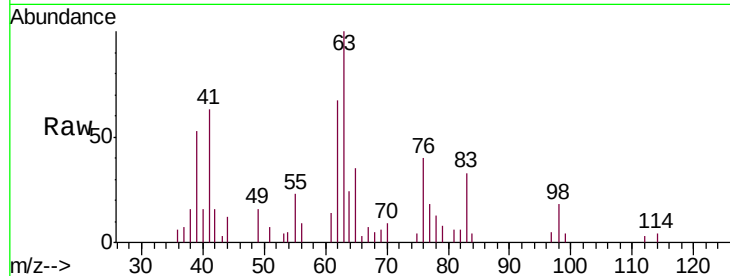




#37
 1,2-Dichloropropane
 Concen: 0.553 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

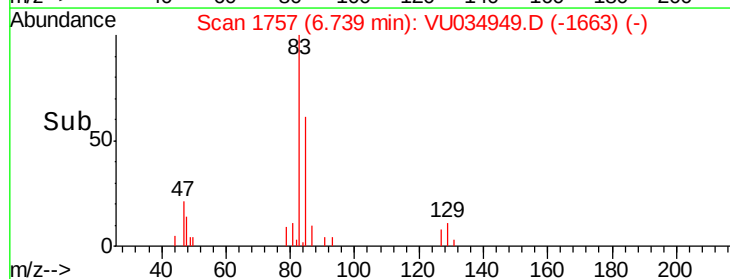
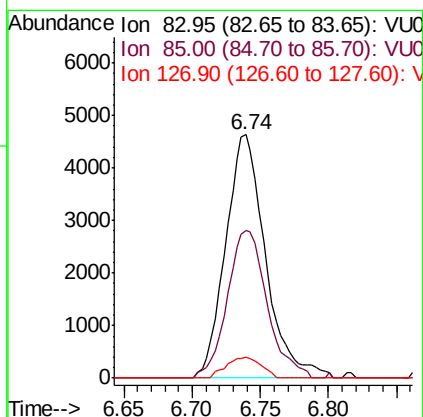
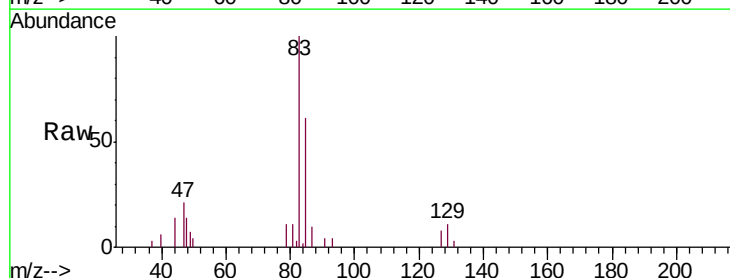
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

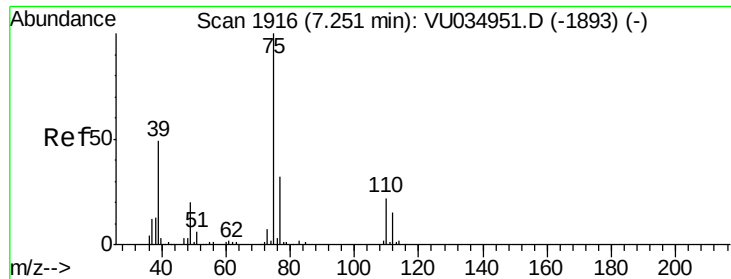
Tgt Ion: 63 Resp: 8047
 Ion Ratio Lower Upper
 63 100
 112 1.5 3.0 4.4#



#38
 Bromodichloromethane
 Concen: 0.514 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Tgt Ion: 83 Resp: 9404
 Ion Ratio Lower Upper
 83 100
 85 60.8 45.3 84.1
 127 8.4 6.6 10.0



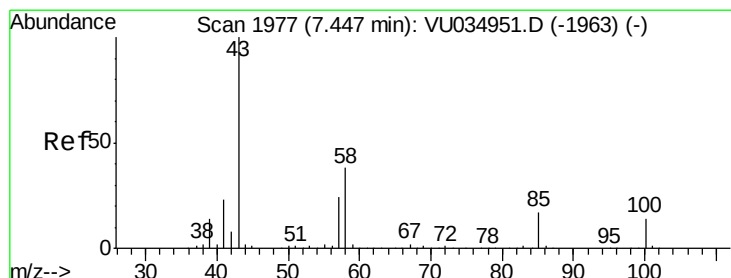
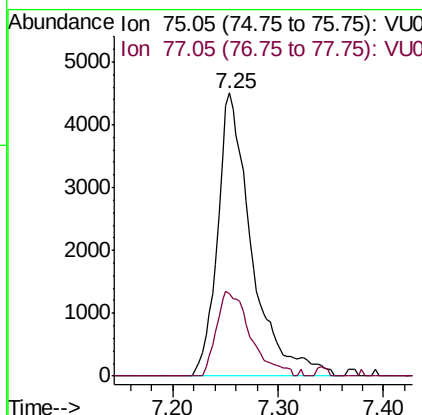
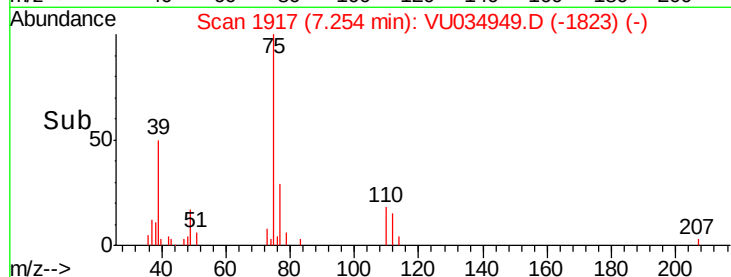
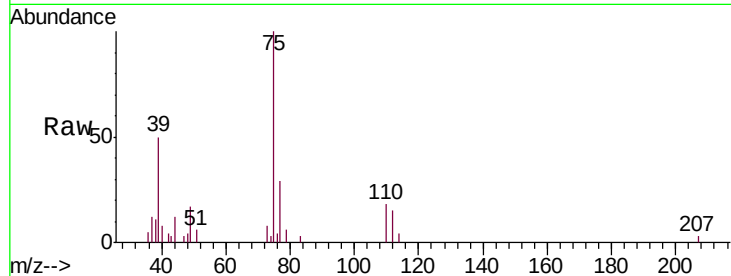


#39

cis-1,3-Dichloropropene
Concen: 0.489 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

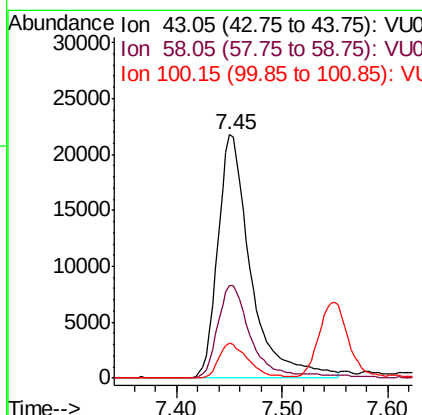
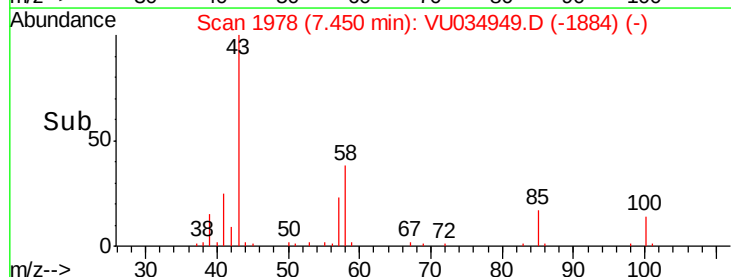
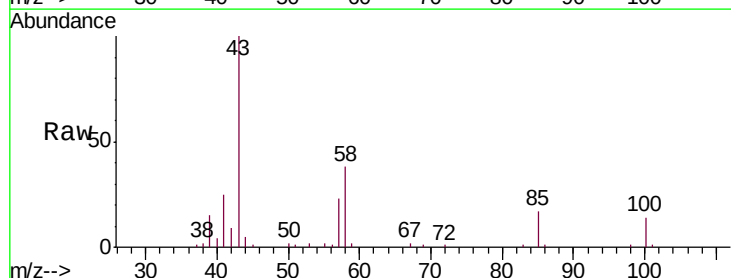
Tgt Ion: 75 Resp: 10090
Ion Ratio Lower Upper
75 100
77 29.3 22.3 41.5

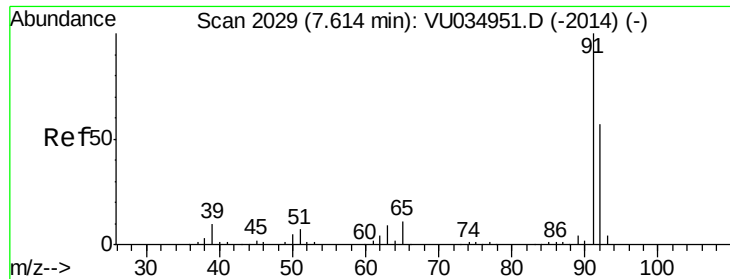


#40

4-Methyl-2-pentanone
Concen: 5.582 ug/L
RT: 7.45 min Scan# 1978
Delta R.T. 0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Tgt Ion: 43 Resp: 47108
Ion Ratio Lower Upper
43 100
58 37.3 31.1 46.7
100 12.9 11.0 16.4





#42

Toluene

Concen: 0.496 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

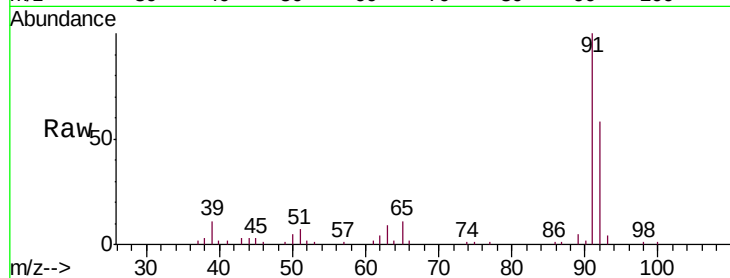
VSTD0.505

Tgt Ion: 91 Resp: 28613

Ion Ratio Lower Upper

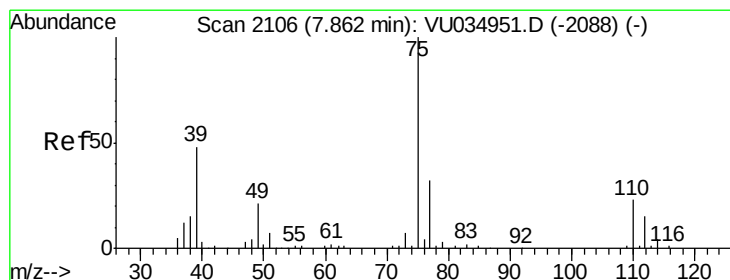
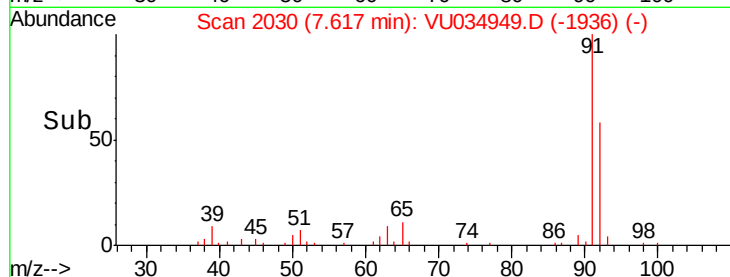
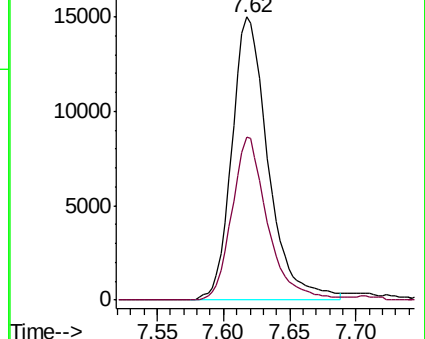
91 100

92 57.6 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.464 ug/L

RT: 7.87 min Scan# 2109

Delta R.T. 0.01 min

Lab File: VU034949.D

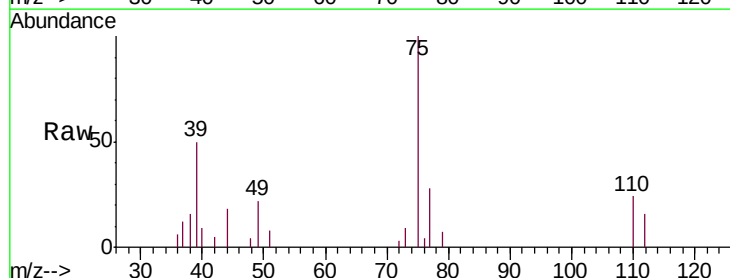
Acq: 07 Oct 2019 09:54

Tgt Ion: 75 Resp: 7649

Ion Ratio Lower Upper

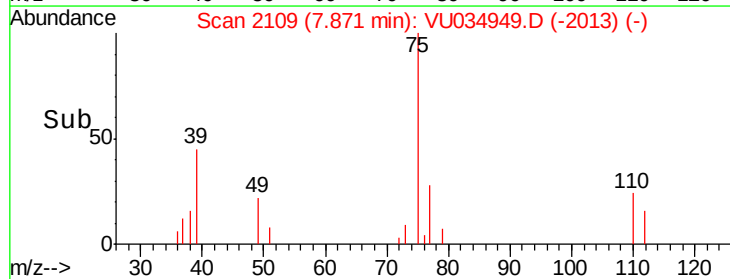
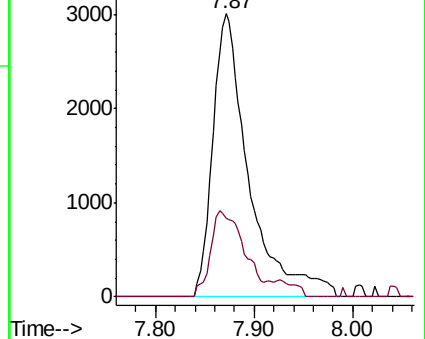
75 100

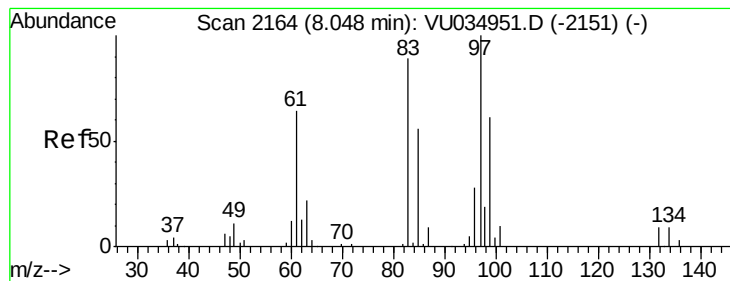
77 27.9 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 0.482 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

Tgt Ion: 97 Resp: 4963

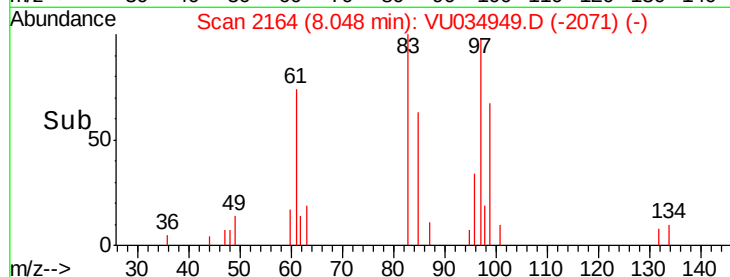
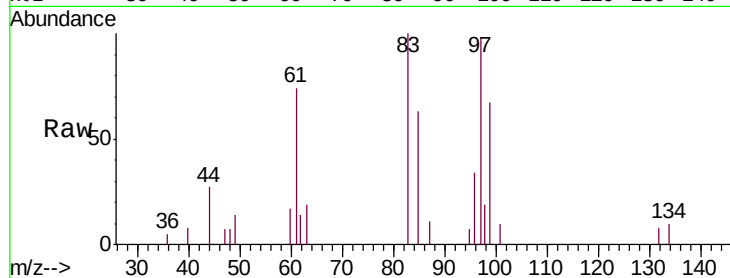
Ion Ratio Lower Upper

97 100

99 68.6 42.8 79.6

83 102.1 62.2 115.6

85 64.0 39.1 72.5

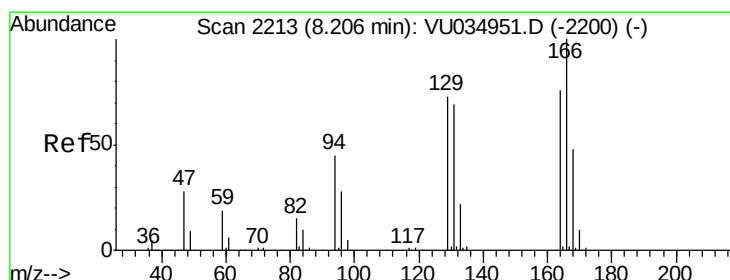
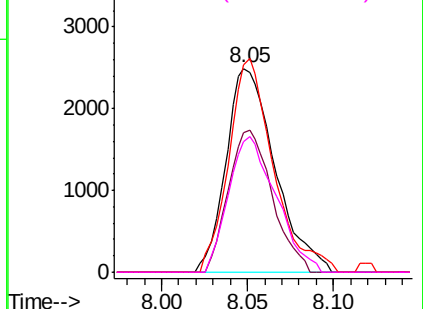


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 0.581 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Tgt Ion: 164 Resp: 6639

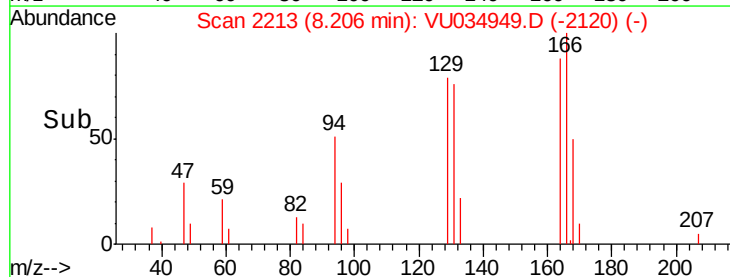
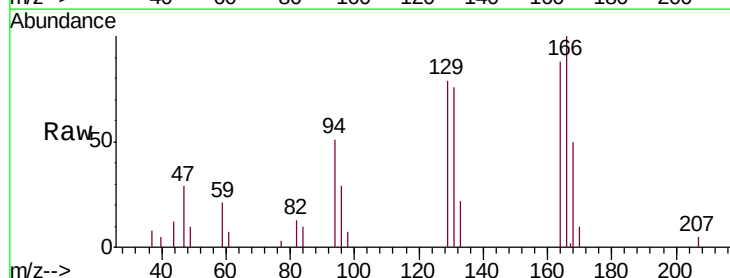
Ion Ratio Lower Upper

164 100

129 90.7 66.5 123.5

131 87.4 63.3 117.7

166 114.3 91.6 170.2

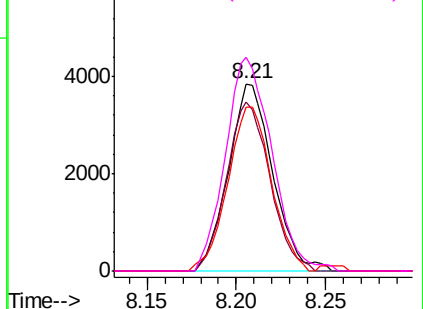


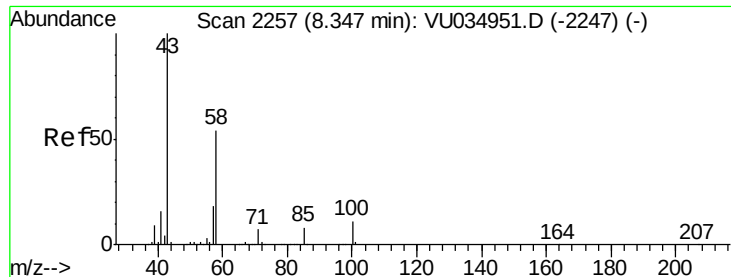
Abundance Ion 163.90 (163.60 to 164.60): V

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

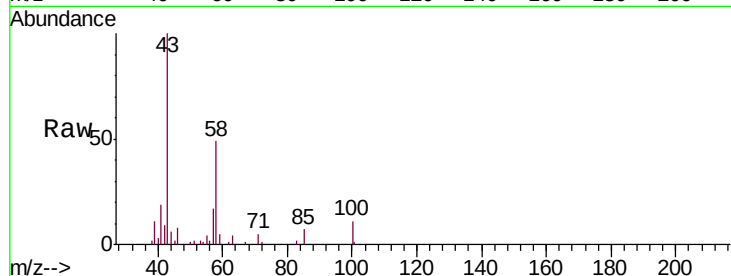




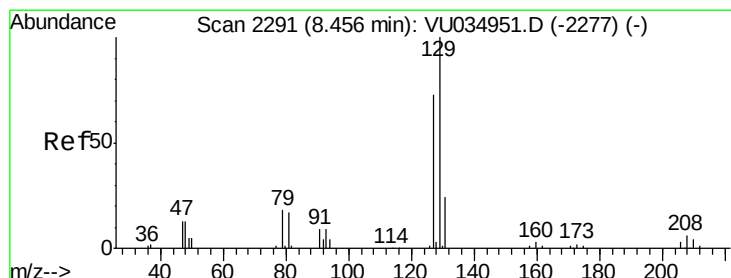
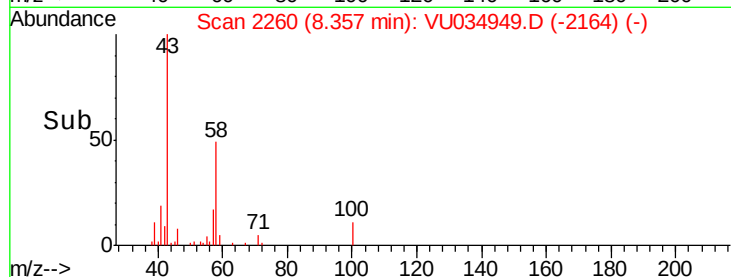
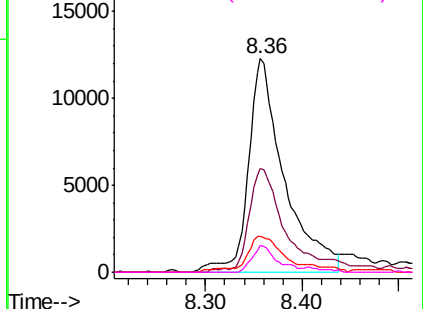
#48
2-Hexanone
Concen: 5.185 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.01 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

Tgt Ion: 43 Resp: 31674
Ion Ratio Lower Upper
43 100
58 46.3 43.3 64.9
57 12.8 14.5 21.7#
100 8.6 8.6 12.8

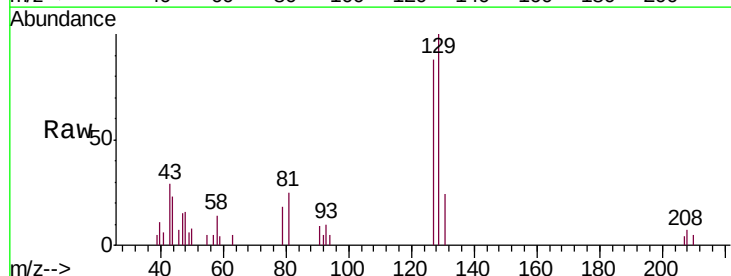


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

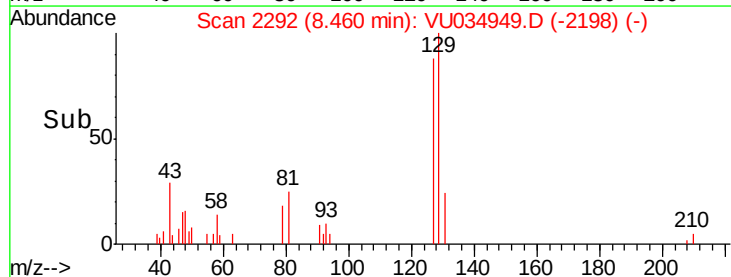
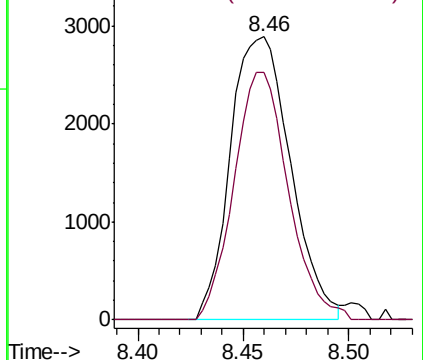


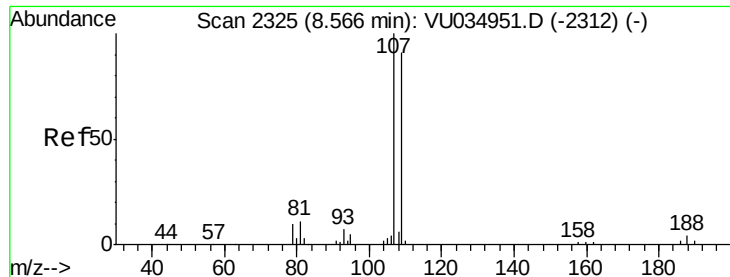
#49
Dibromochloromethane
Concen: 0.466 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Tgt Ion: 129 Resp: 5726
Ion Ratio Lower Upper
129 100
127 87.6 51.2 95.0



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

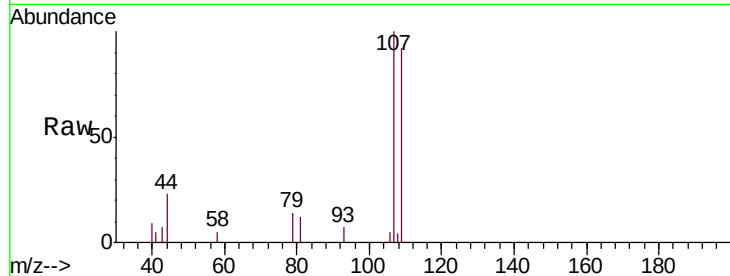




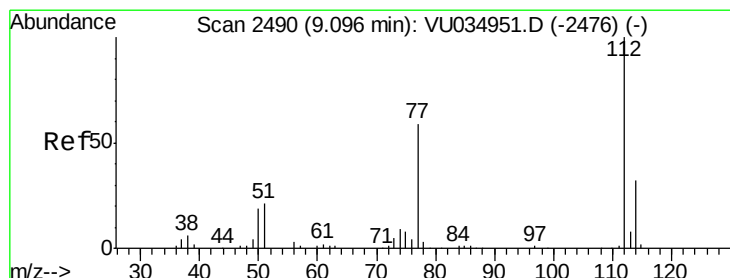
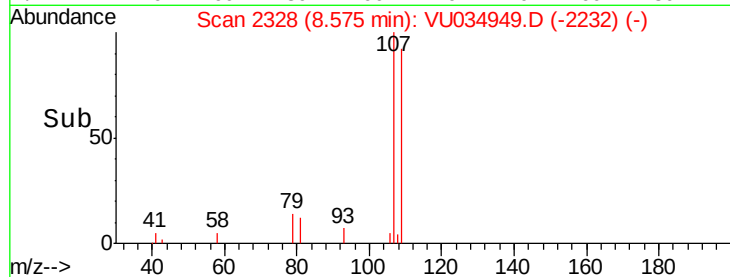
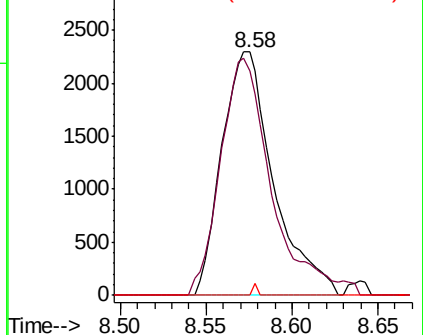
#50
1,2-Dibromoethane
Concen: 0.491 ug/L
RT: 8.58 min Scan# 2328
Delta R.T. 0.01 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.505

Tgt Ion:107 Resp: 4816
Ion Ratio Lower Upper
107 100
109 91.9 64.0 119.0
188 0.0 3.5 5.3#

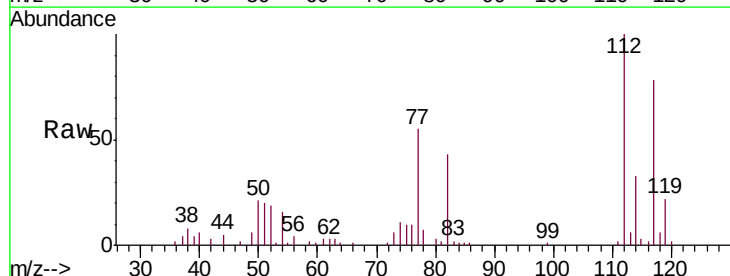


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

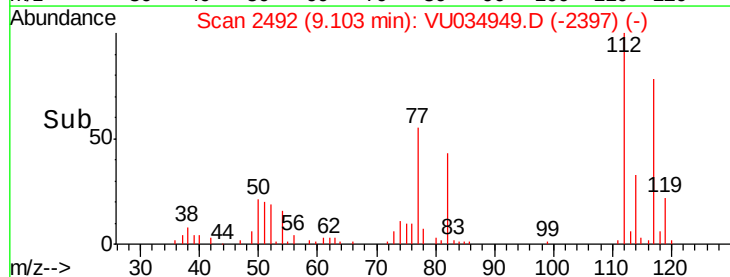
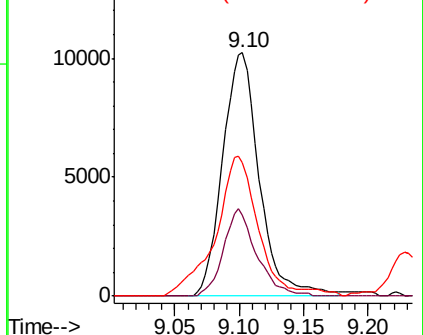


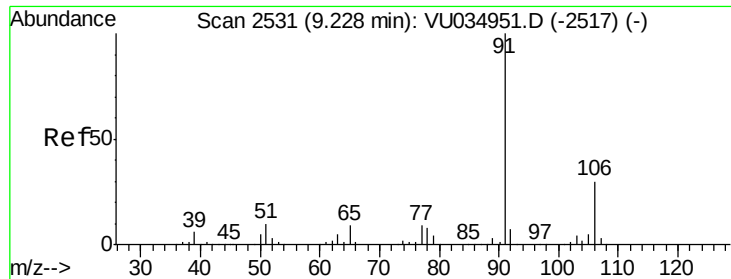
#51
Chlorobenzene
Concen: 0.537 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.01 min
Lab File: VU034949.D
Acq: 07 Oct 2019 09:54

Tgt Ion:112 Resp: 20199
Ion Ratio Lower Upper
112 100
114 33.5 22.2 41.2
77 54.7 47.4 71.2



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): VU0





#52

Ethylbenzene

Concen: 0.522 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

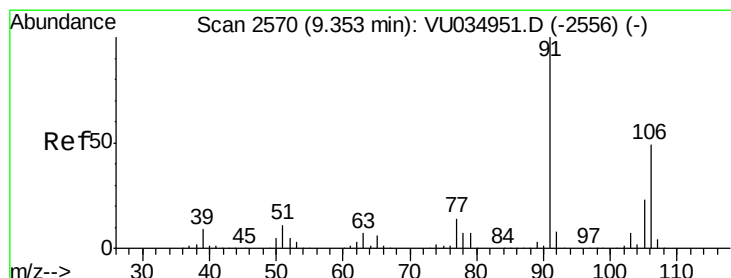
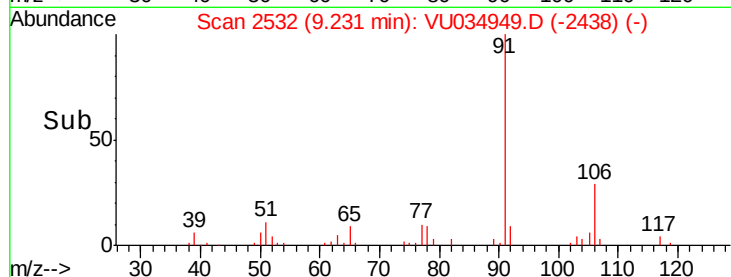
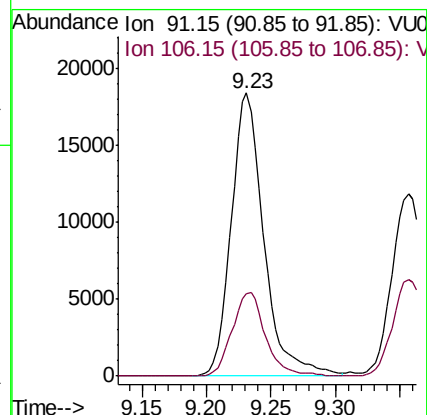
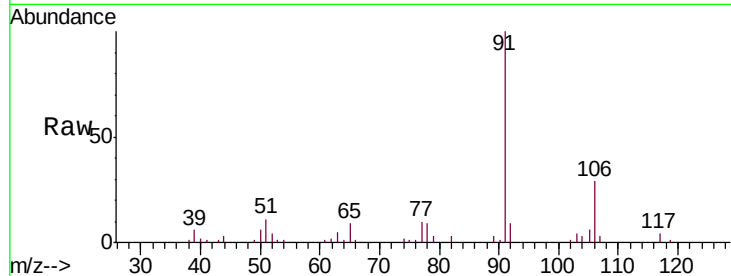
VSTD0.505

Tgt Ion: 91 Resp: 32325

Ion Ratio Lower Upper

91 100

106 29.2 21.1 39.3



#53

m,p-Xylene

Concen: 0.513 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034949.D

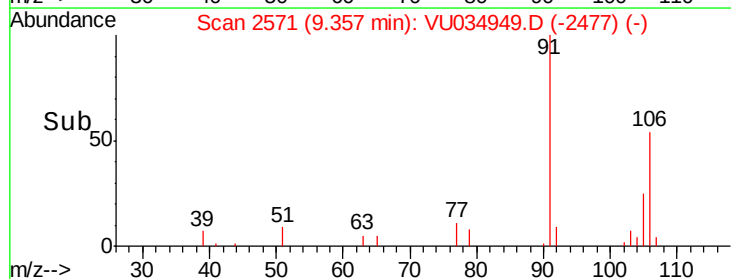
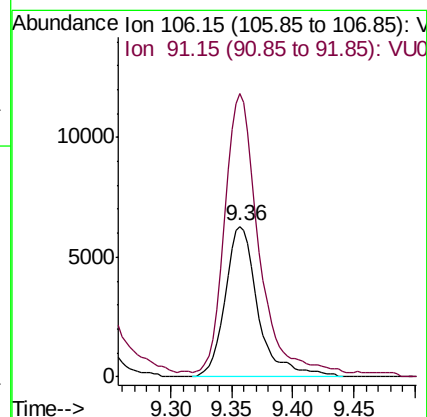
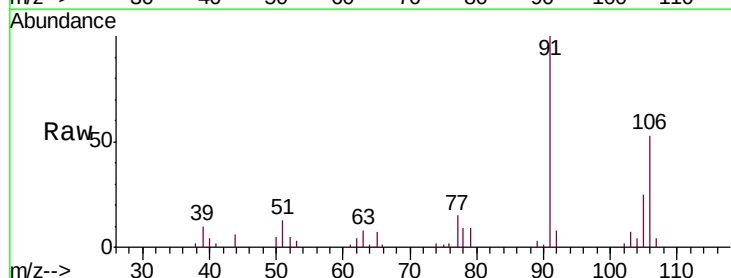
Acq: 07 Oct 2019 09:54

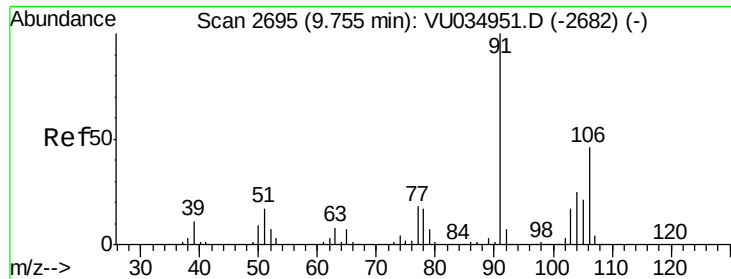
Tgt Ion: 106 Resp: 11908

Ion Ratio Lower Upper

106 100

91 187.7 143.1 265.9





#54

o-Xylene

Concen: 0.511 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

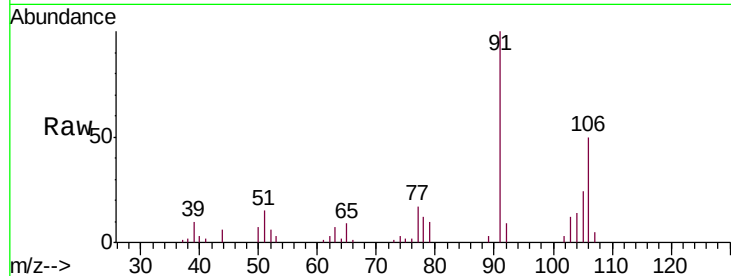
VSTD0.505

Tgt Ion:106 Resp: 11347

Ion Ratio Lower Upper

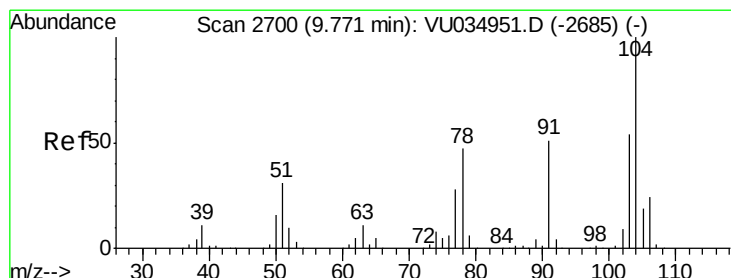
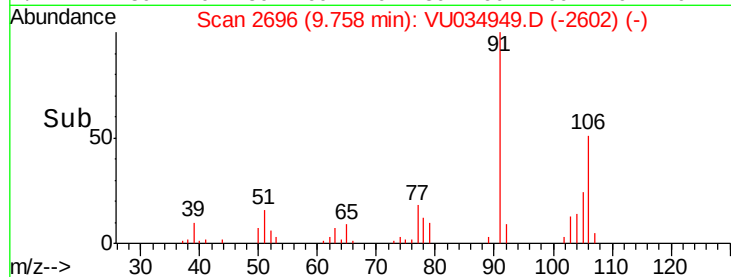
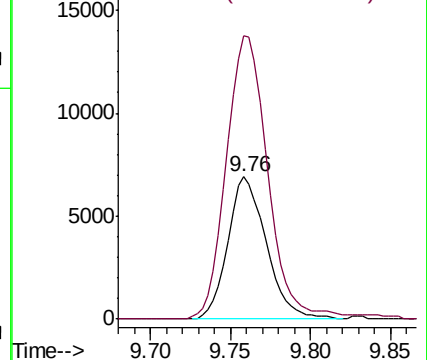
106 100

91 198.7 151.6 281.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.434 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.01 min

Lab File: VU034949.D

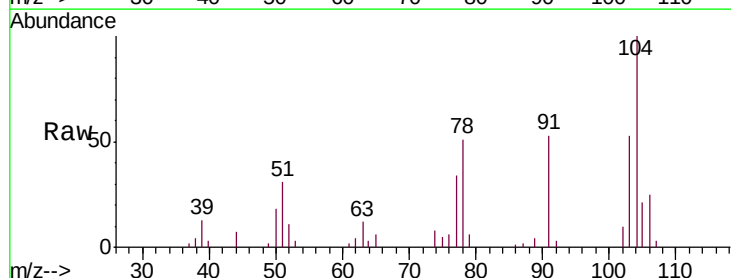
Acq: 07 Oct 2019 09:54

Tgt Ion:104 Resp: 16620

Ion Ratio Lower Upper

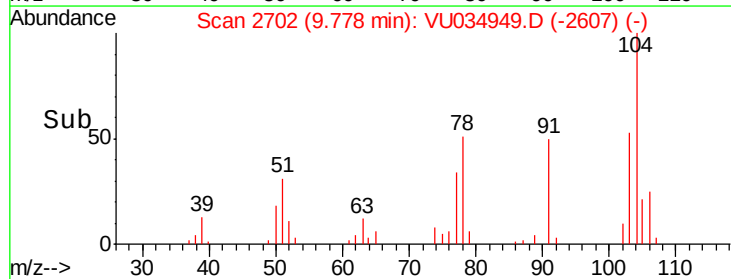
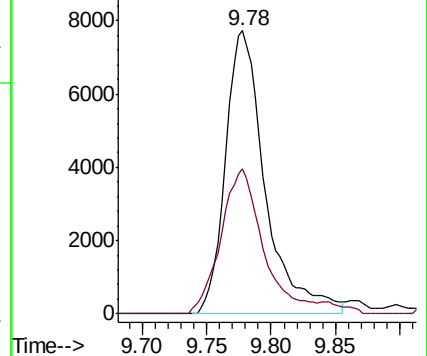
104 100

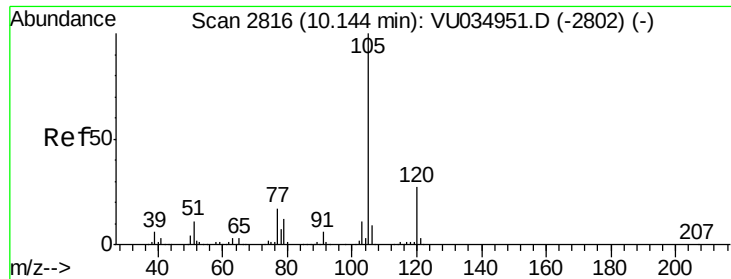
78 51.4 32.7 60.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.515 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

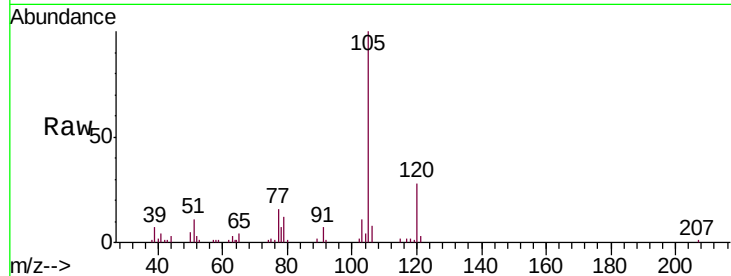
Tgt Ion: 105 Resp: 30503

Ion Ratio Lower Upper

105 100

120 27.2 20.8 31.2

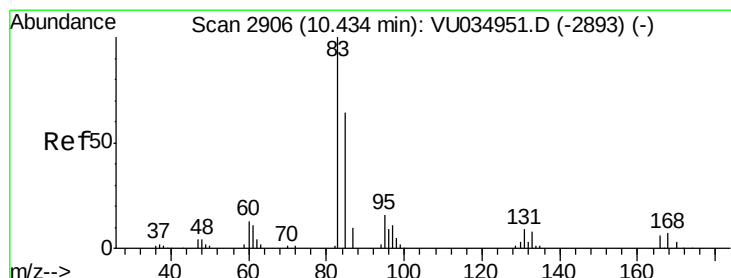
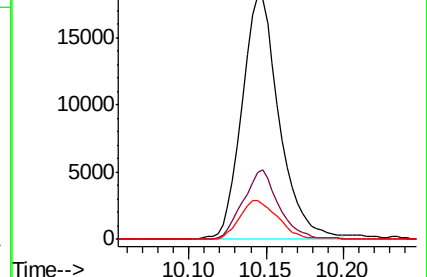
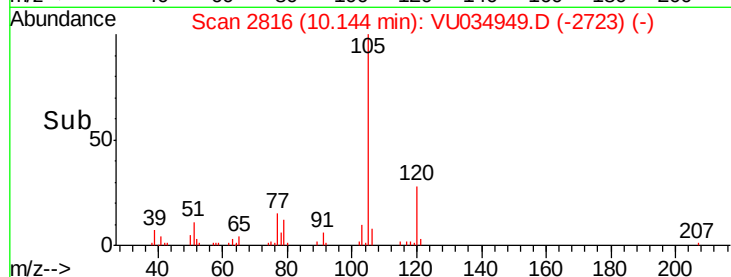
77 16.4 13.0 19.6



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: 0.539 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

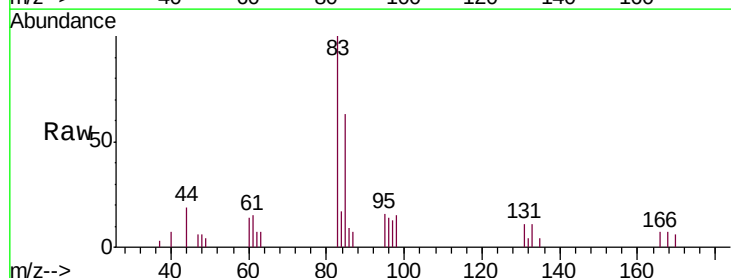
Tgt Ion: 83 Resp: 7130

Ion Ratio Lower Upper

83 100

85 63.0 45.0 83.6

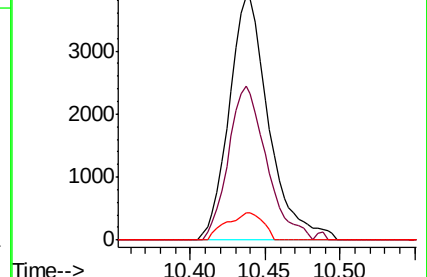
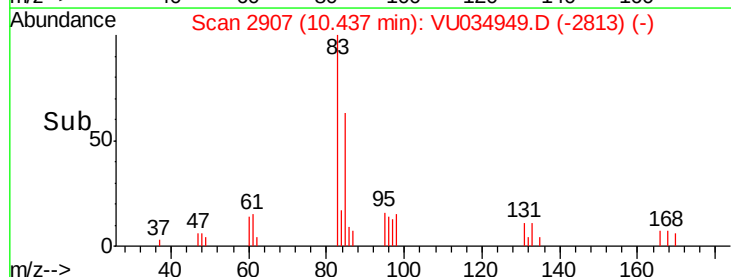
131 11.1 7.7 11.5

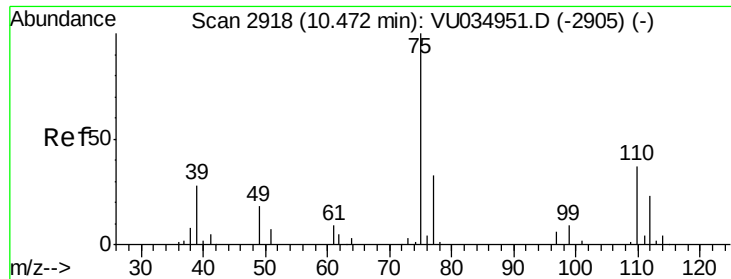


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

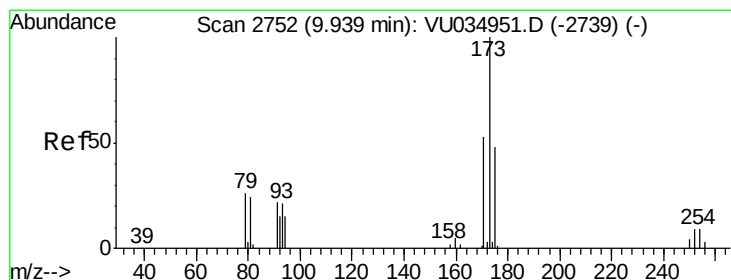
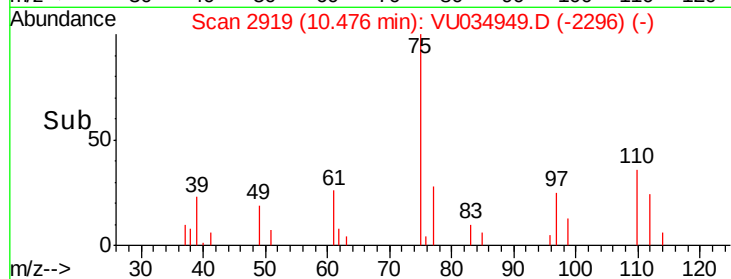
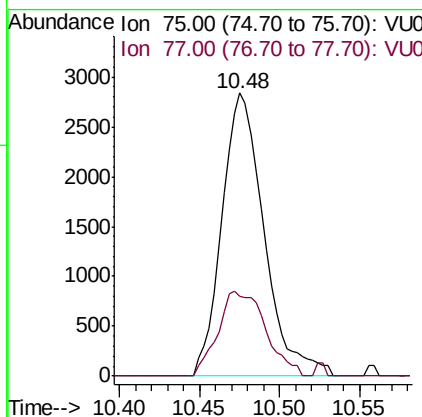
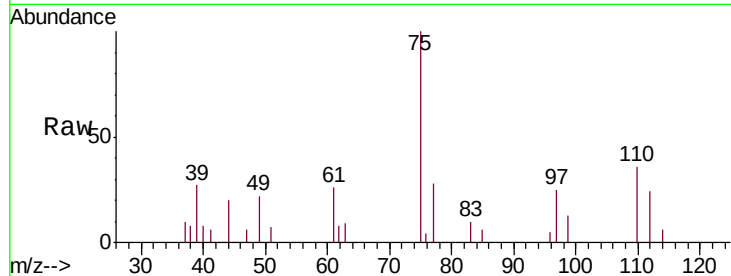




#59
 1,2,3-Trichloropropane
 Concen: 0.541 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. 0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

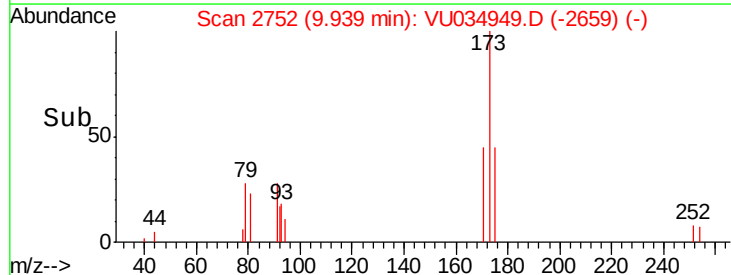
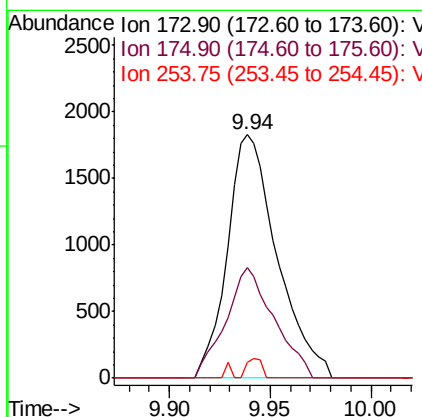
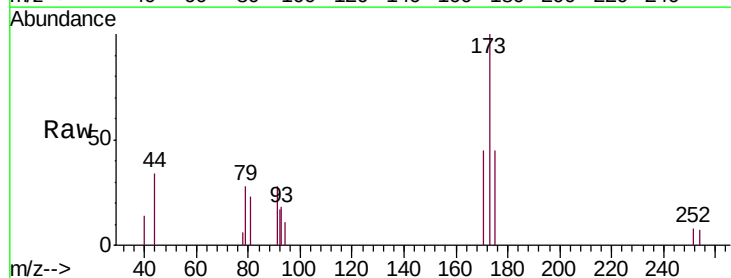
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

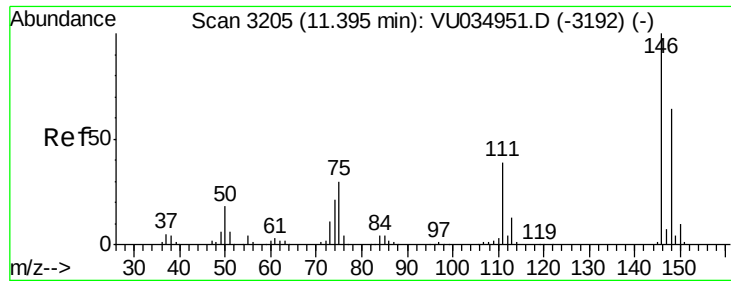
Tgt Ion: 75 Resp: 5104
 Ion Ratio Lower Upper
 75 100
 77 33.8 25.8 38.6



#61
 Bromoform
 Concen: 0.547 ug/L
 RT: 9.94 min Scan# 2752
 Delta R.T. -0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Tgt Ion: 173 Resp: 3151
 Ion Ratio Lower Upper
 173 100
 175 43.9 39.2 58.8
 254 2.5 6.9 10.3#

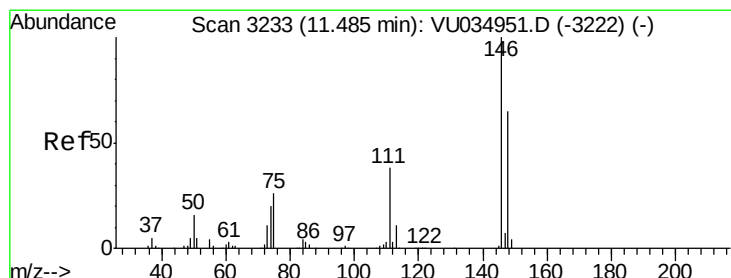
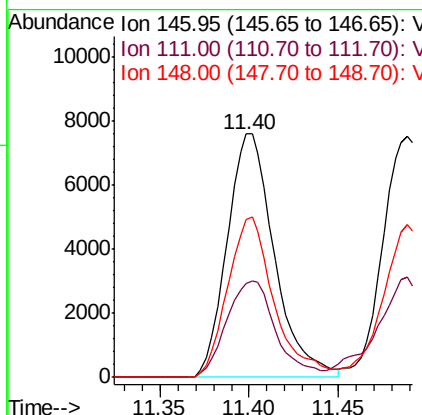
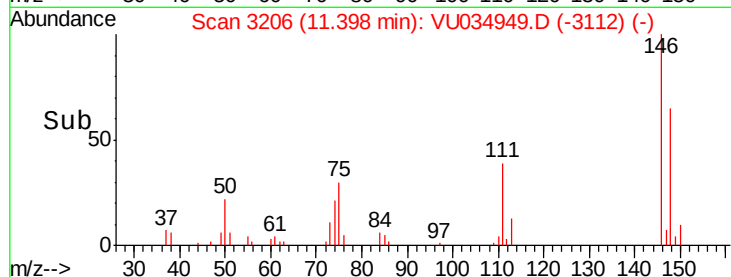
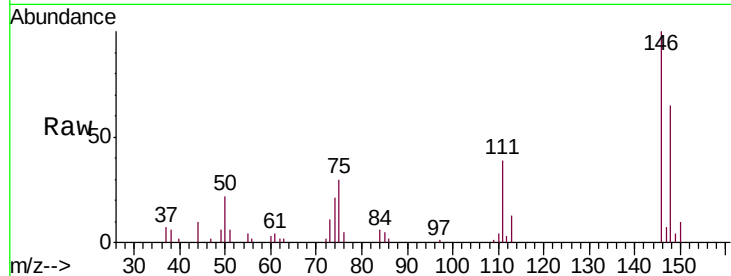




#62
 1,3-Dichlorobenzene
 Concen: 0.547 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

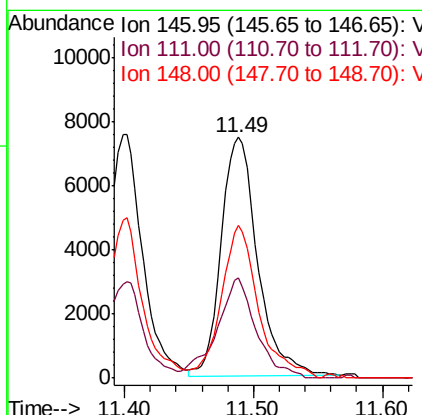
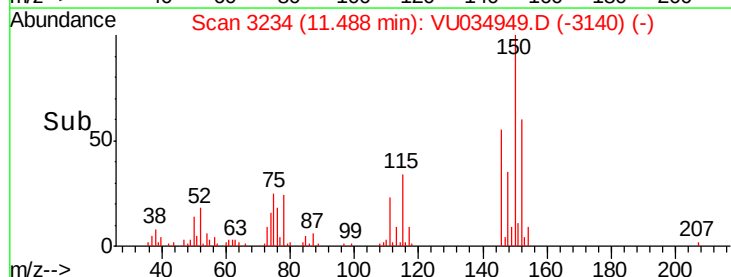
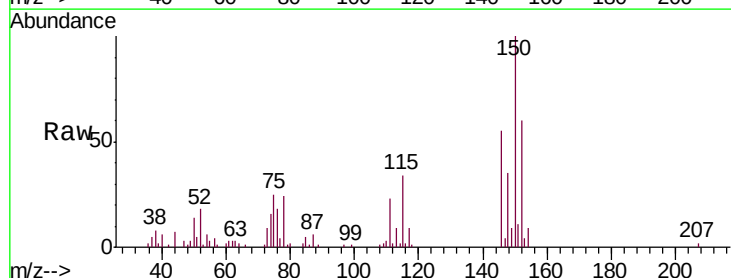
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

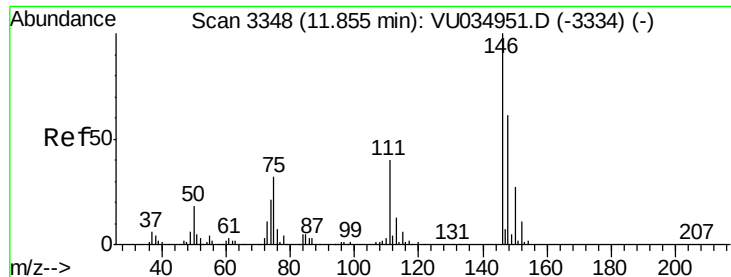
Tgt Ion:146 Resp: 14010
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.4 50.8
 148 65.0 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 0.546 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Tgt Ion:146 Resp: 14593
 Ion Ratio Lower Upper
 146 100
 111 41.7 27.3 50.7
 148 63.3 45.8 85.2

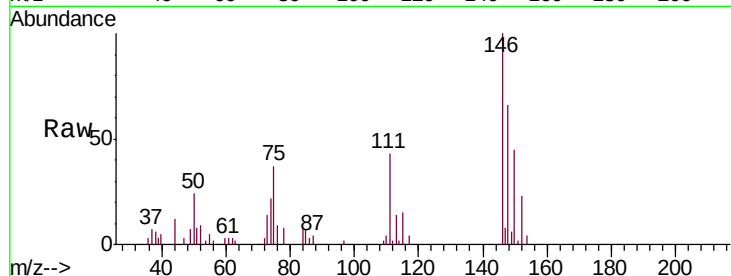




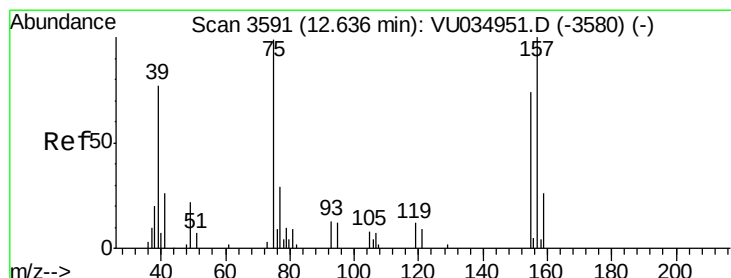
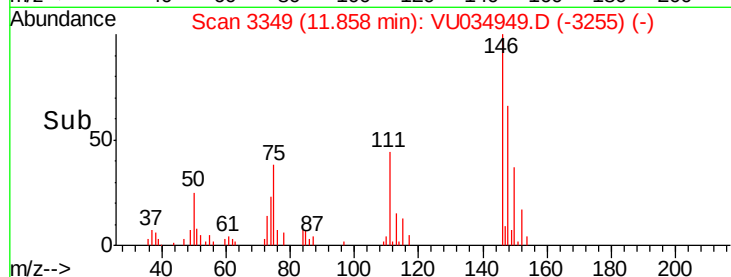
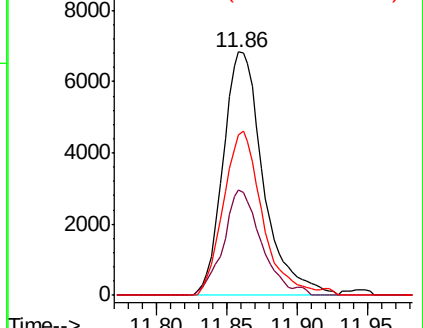
#65
 1,2-Dichlorobenzene
 Concen: 0.537 ug/L
 RT: 11.86 min Scan# 3349
 Delta R.T. 0.00 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

Tgt Ion: 146 Resp: 13594
 Ion Ratio Lower Upper
 146 100
 111 43.0 32.1 48.1
 148 66.0 49.2 73.8

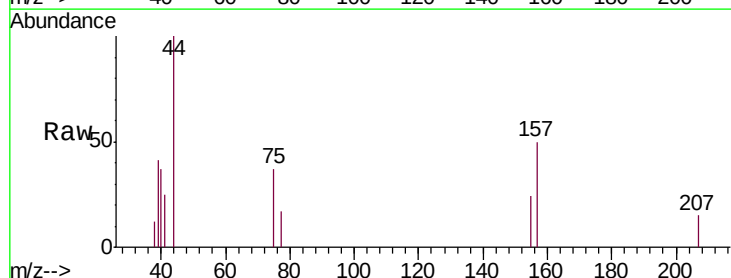


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

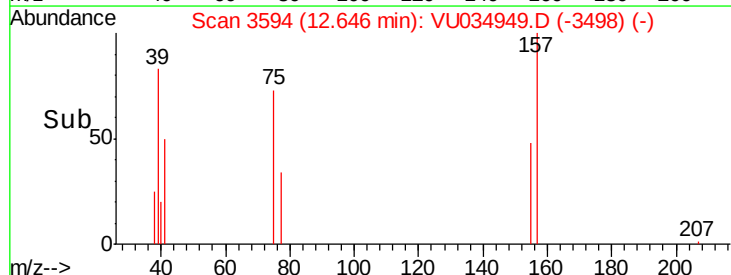
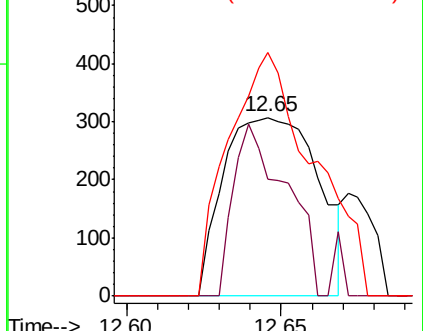


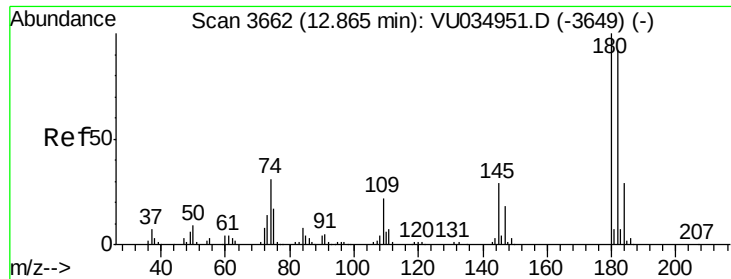
#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.348 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.01 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Tgt Ion: 75 Resp: 654
 Ion Ratio Lower Upper
 75 100
 155 65.5 59.7 89.5
 157 136.5 80.8 121.2#



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

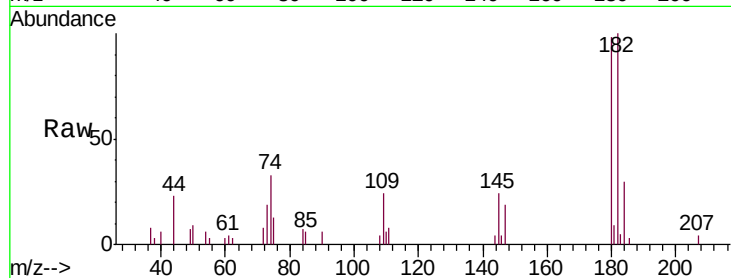




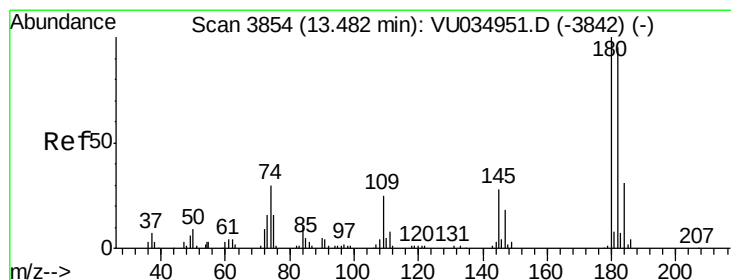
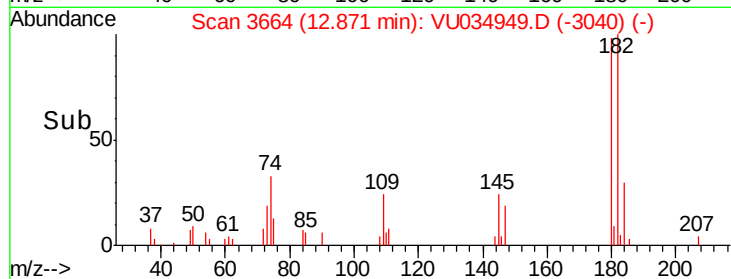
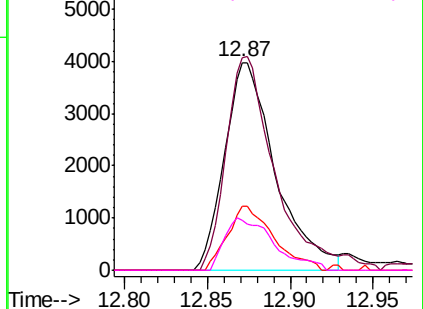
#67
 1,3,5-Trichlorobenzene
 Concen: 0.432 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.01 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.505

Tgt Ion:180 Resp: 8517
 Ion Ratio Lower Upper
 180 100
 182 99.2 75.7 113.5
 184 27.9 24.1 36.1
 145 24.4 22.5 33.7

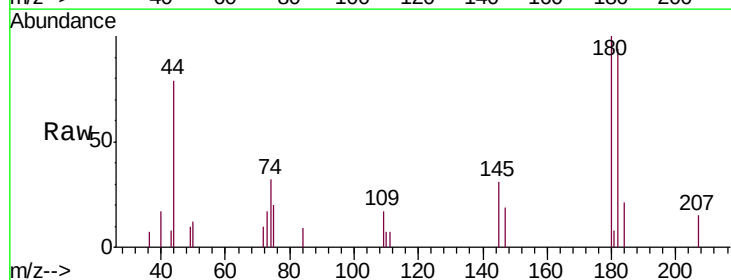


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

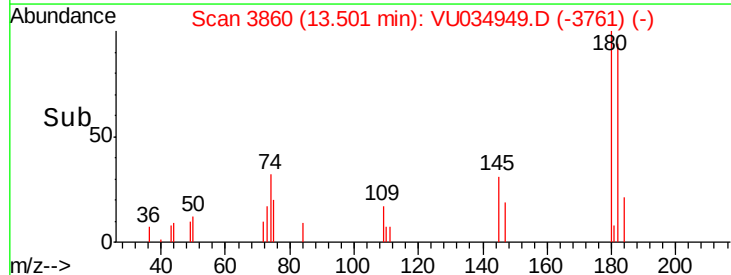
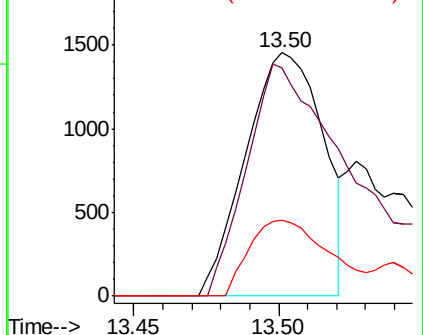


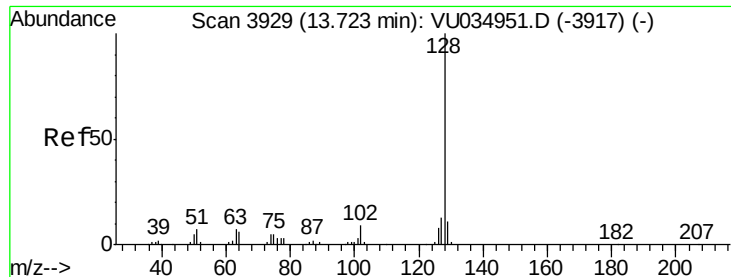
#68
 1,2,4-trichlorobenzene
 Concen: 0.173 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.02 min
 Lab File: VU034949.D
 Acq: 07 Oct 2019 09:54

Tgt Ion:180 Resp: 2694
 Ion Ratio Lower Upper
 180 100
 182 137.3 77.0 115.4#
 145 32.2 22.2 33.4



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: 0.154 ug/L

RT: 13.75 min Scan# 3937

Delta R.T. 0.03 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.505

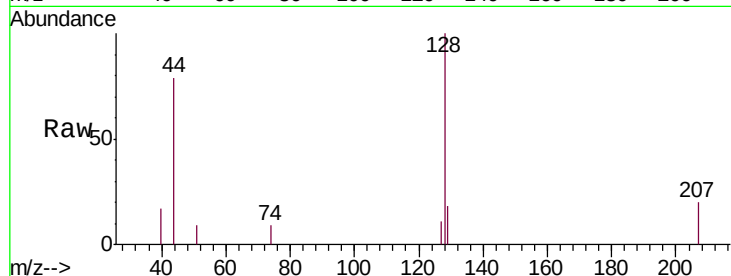
Tgt Ion:128 Resp: 4004

Ion Ratio Lower Upper

128 100

129 7.7 8.1 12.1#

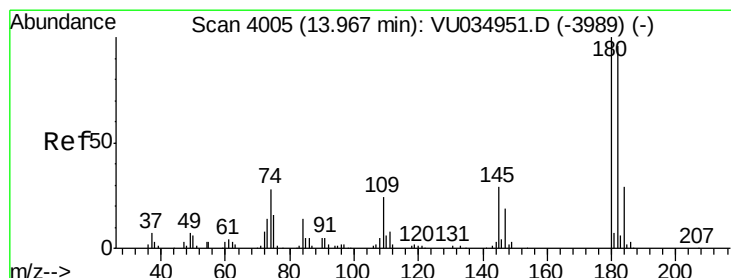
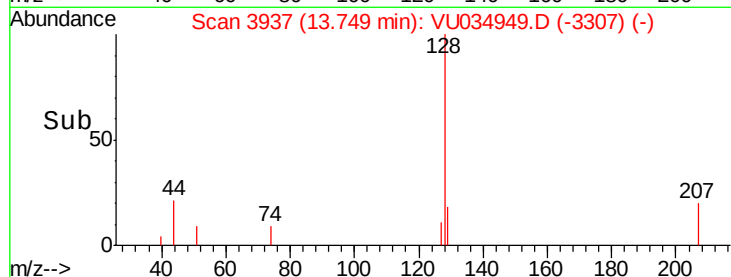
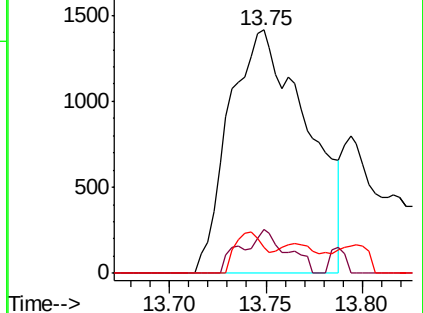
127 6.2 9.8 14.6#



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: 0.318 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.01 min

Lab File: VU034949.D

Acq: 07 Oct 2019 09:54

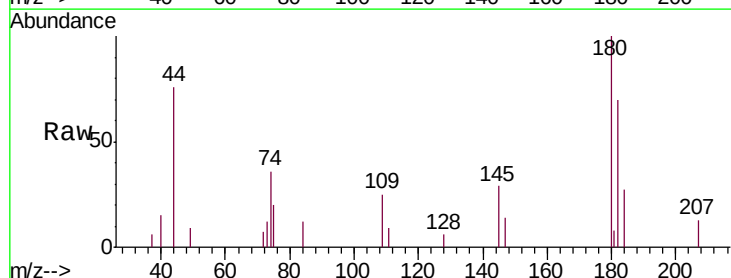
Tgt Ion:180 Resp: 4677

Ion Ratio Lower Upper

180 100

182 80.3 78.1 117.1

145 11.8 24.6 36.8#



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

