

Data File : VU032904.D
Acq On : 20 Jun 2019 16:43
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Quant Time: Jun 21 05:32:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 21 05:28:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	91158	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	92068	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	50616	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	21996	3.71	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.20%
7) Chloroethane-d5	1.68	69	20033	3.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.00%
11) 1,1-Dichloroethene-d2	2.27	63	53113	4.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.40%
20) 2-Butanone-d5	4.18	46	91737	55.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.92%
24) Chloroform-d	4.64	84	56201	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.80%
26) 1,2-Dichloroethane-d4	5.30	65	30969	5.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.60%
32) Benzene-d6	5.33	84	96974	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
36) 1,2-Dichloropropane-d6	6.32	67	32761	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	7.56	98	92300	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
43) trans-1,3-Dichloropropene-	7.85	79	13348	4.43	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.60%
46) 2-Hexanone-d5	8.31	63	67548	44.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.44%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	30626	5.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.00%
64) 1,2-Dichlorobenzene-d4	11.85	152	39743	4.37	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	43311	5.537	ug/L 99
3) Chloromethane	1.33	50	38496	4.745	ug/L 99
5) Vinyl chloride	1.40	62	41214	5.169	ug/L 98
6) Bromomethane	1.62	94	25283	5.198	ug/L 99
8) Chloroethane	1.69	64	24279	4.766	ug/L 99
9) Trichlorofluoromethane	1.88	101	60019	5.260	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	31764	5.236	ug/L 99
12) 1,1-Dichloroethene	2.28	96	28104	4.852	ug/L 92
13) Acetone	2.32	43	67625	52.676	ug/L 96
14) Carbon disulfide	2.47	76	89135	4.806	ug/L 100
15) Methyl Acetate	2.61	43	16714	4.745	ug/L 95
16) Methylene chloride	2.69	84	31811	4.953	ug/L 96
17) Methyl tert-butyl Ether	3.00	73	84624	4.996	ug/L 98
18) trans-1,2-Dichloroethene	2.97	96	31712	5.075	ug/L 95
19) 1,1-Dichloroethane	3.43	63	63710	5.696	ug/L 98
21) 2-Butanone	4.27	43	105407	56.453	ug/L 97
22) cis-1,2-Dichloroethene	4.22	96	35179	4.974	ug/L 91

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ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Quant Time: Jun 21 05:32:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	16521	5.428	ug/L	92
25) Chloroform	4.67	83	64681	5.661	ug/L	95
27) 1,2-Dichloroethane	5.40	62	45185	6.017	ug/L	98
29) 1,1,1-Trichloroethane	4.90	97	57200	5.098	ug/L	97
30) Cyclohexane	4.98	56	52114	4.395	ug/L	98
31) Carbon tetrachloride	5.12	117	50387	4.940	ug/L	100
33) Benzene	5.38	78	131700	4.852	ug/L	100
34) Trichloroethene	6.18	95	35814	4.587	ug/L	97
35) Methylcyclohexane	6.41	83	55518	4.421	ug/L	96
37) 1,2-Dichloropropane	6.43	63	36460	5.191	ug/L	99
38) Bromodichloromethane	6.75	83	46940	5.200	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	53468	4.959	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	256182	51.257	ug/L	96
42) Toluene	7.63	91	146774	4.852	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	43580	5.062	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	25744	5.038	ug/L	97
47) Tetrachloroethene	8.22	164	29683	4.831	ug/L	98
48) 2-Hexanone	8.36	43	184088	51.541	ug/L	97
49) Dibromochloromethane	8.47	129	31746	4.857	ug/L	98
50) 1,2-Dibromoethane	8.58	107	24155	4.743	ug/L	94
51) Chlorobenzene	9.11	112	93980	4.955	ug/L	98
52) Ethylbenzene	9.24	91	159906	4.796	ug/L	99
53) m,p-Xylene	9.37	106	59876	4.737	ug/L	95
54) o-Xylene	9.77	106	58234	4.616	ug/L	95
55) Styrene	9.78	104	101029	4.868	ug/L	96
56) Isopropylbenzene	10.16	105	158366	4.759	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	33329	5.100	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	24816	5.381	ug/L	100
61) Bromoform	9.95	173	17977	4.420	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	78678	4.762	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	81593	4.857	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	77077	4.828	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	5771	5.148	ug/L	93
67) 1,3,5-Trichlorobenzene	12.88	180	66286	5.006	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	54509	5.105	ug/L	97
69) Naphthalene	13.74	128	88229	4.714	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	51436	4.837	ug/L	97

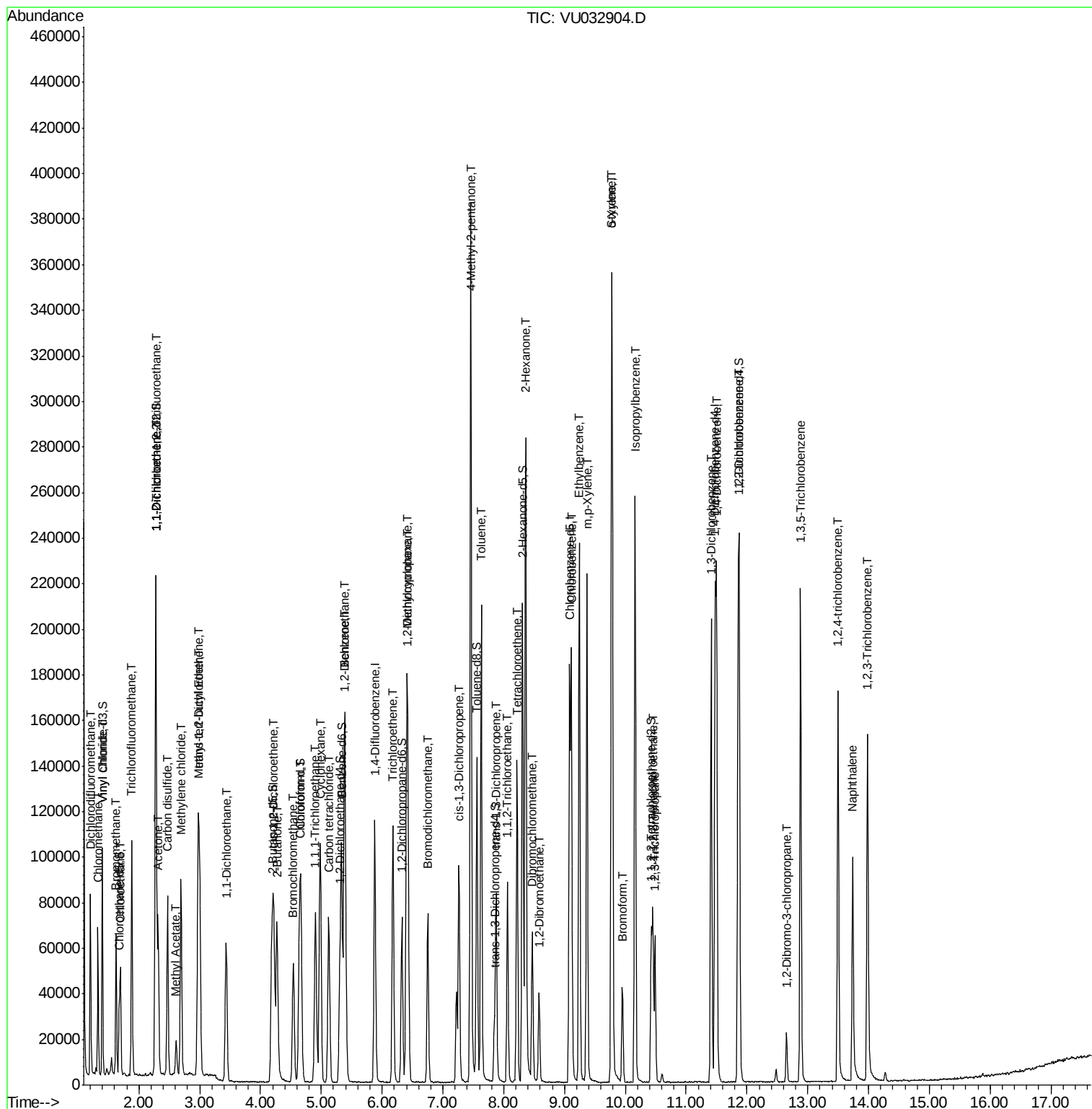
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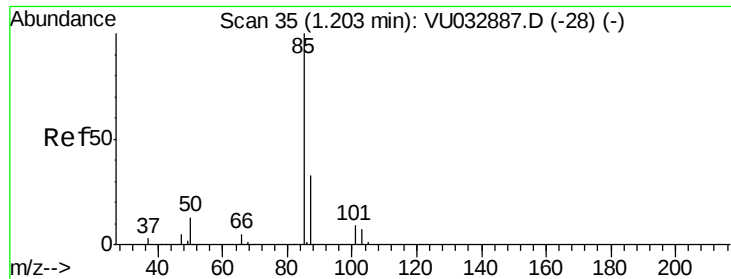
Data File : VU032904.D

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Acq On       : 20 Jun 2019   16:43
Operator     : JC/SP
Sample       : VSTDCCC005
Misc         : 25.0mL/MSVOA_U/WATER
ALS Vial     : 19   Sample Multiplier: 1
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MSVOA_U
ClientSampleId :
VSTD00502

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#2

Dichlorodifluoromethane

Concen: 5.537 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

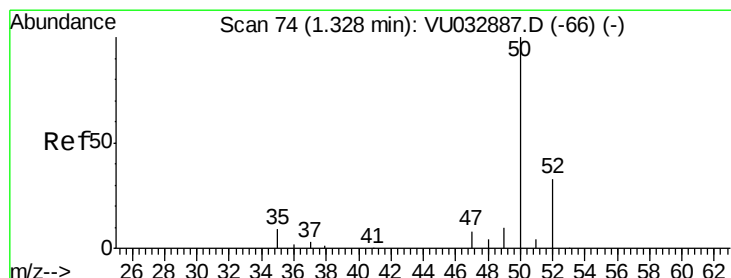
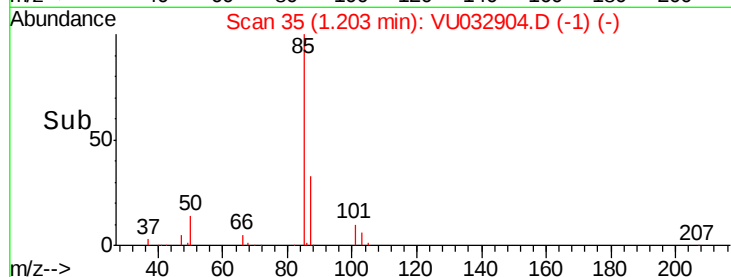
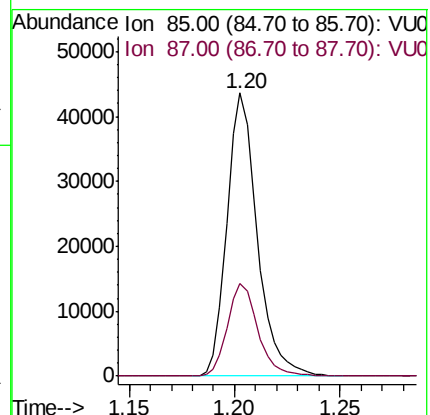
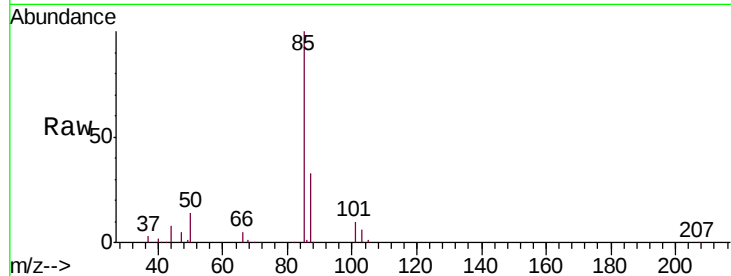
VSTD00502

Tgt Ion: 85 Resp: 43311

Ion Ratio Lower Upper

85 100

87 32.9 25.8 38.8



#3

Chloromethane

Concen: 4.745 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032904.D

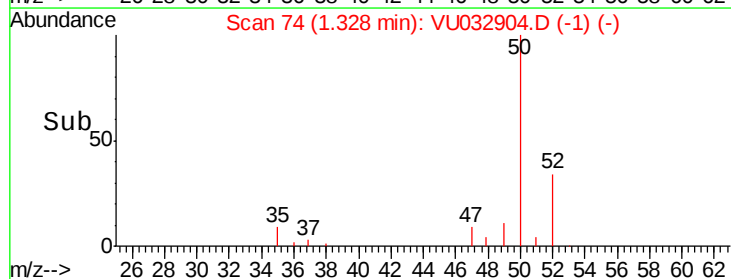
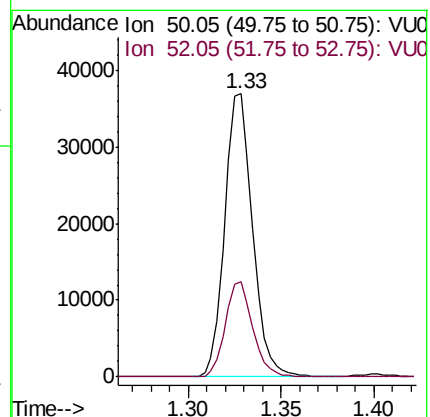
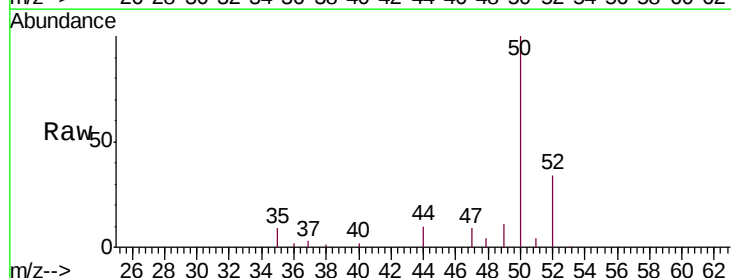
Acq: 20 Jun 2019 16:43

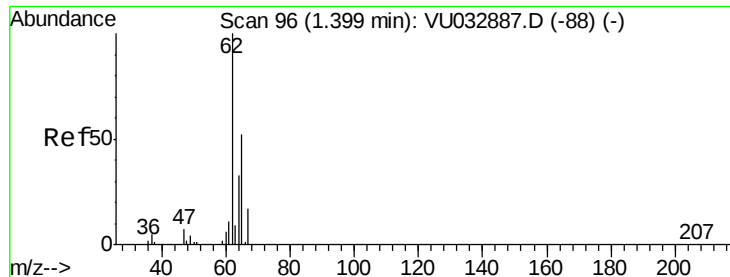
Tgt Ion: 50 Resp: 38496

Ion Ratio Lower Upper

50 100

52 33.6 23.2 43.2





#5

Vinyl chloride

Concen: 5.169 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

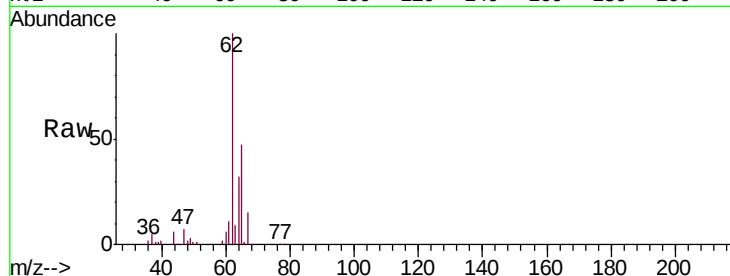
VSTD00502

Tgt Ion: 62 Resp: 41214

Ion Ratio Lower Upper

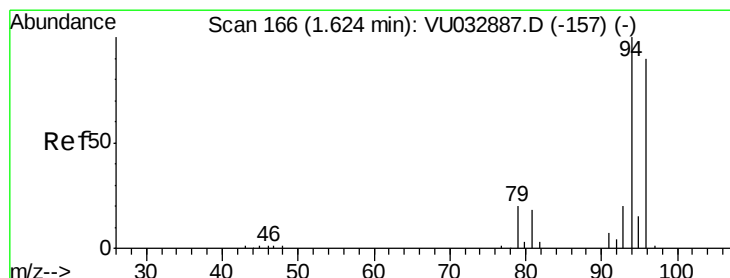
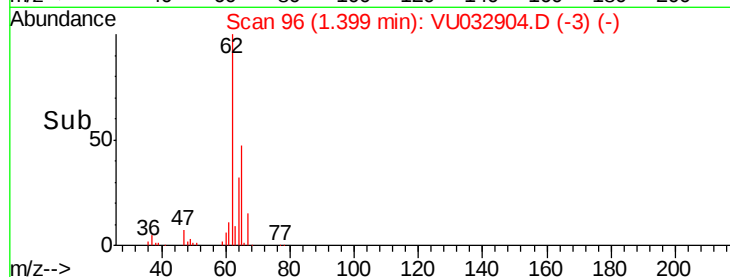
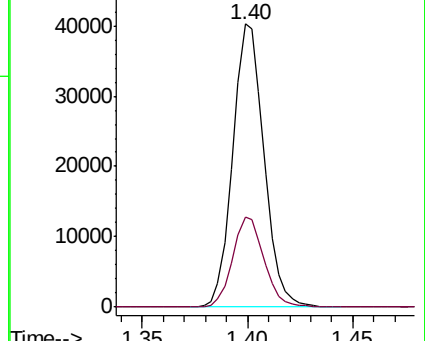
62 100

64 31.9 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU032887.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU032887.D (-88) (-)



#6

Bromomethane

Concen: 5.198 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU032904.D

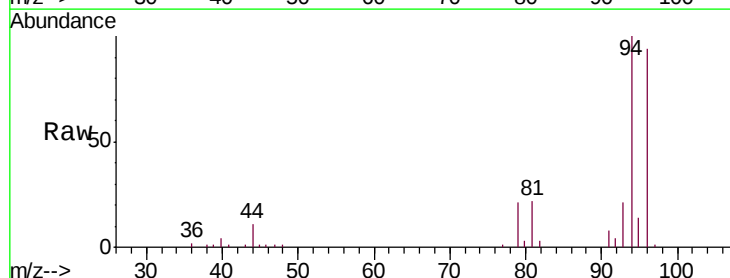
Acq: 20 Jun 2019 16:43

Tgt Ion: 94 Resp: 25283

Ion Ratio Lower Upper

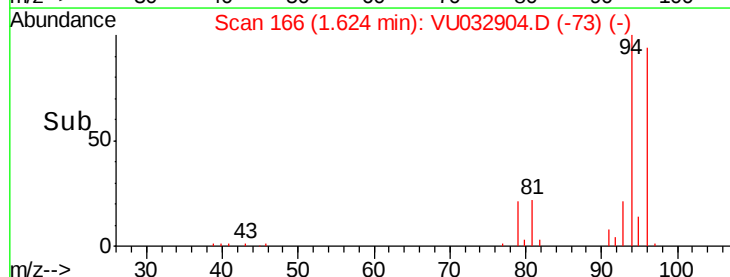
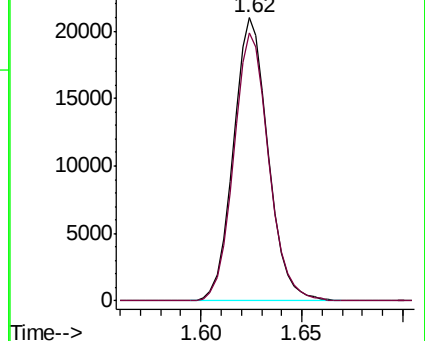
94 100

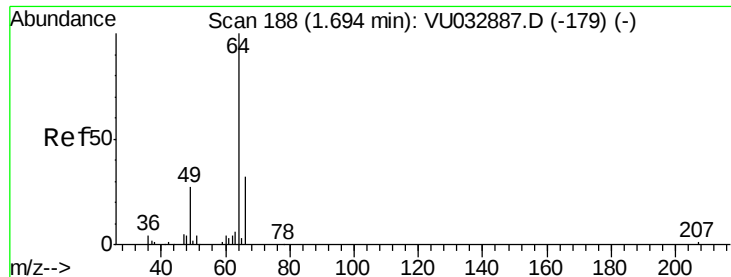
96 94.5 65.5 121.6



Abundance Ion 94.00 (93.70 to 94.70): VU032887.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU032887.D (-157) (-)





#8

Chloroethane

Concen: 4.766 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

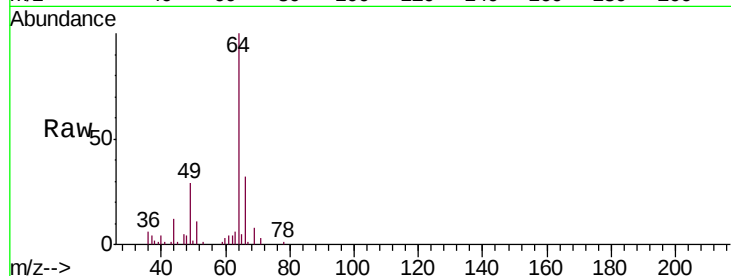
VSTD00502

Tgt Ion: 64 Resp: 24279

Ion Ratio Lower Upper

64 100

66 31.9 22.8 42.4



Abundance Ion 64.10 (63.80 to 64.80): VU032887.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU032887.D (-179) (-)

1.69

20000

15000

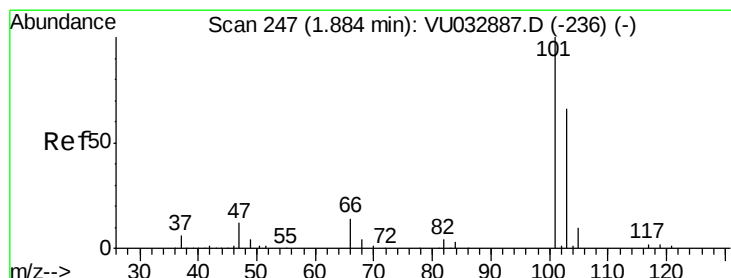
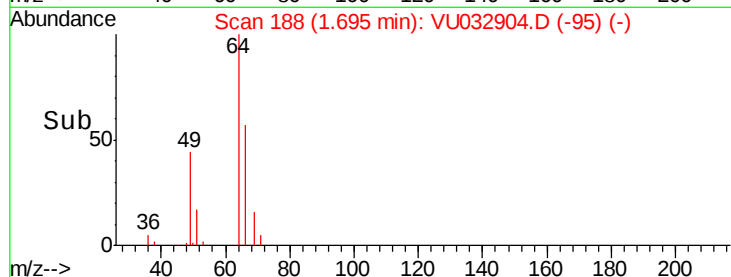
10000

5000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 5.260 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU032904.D

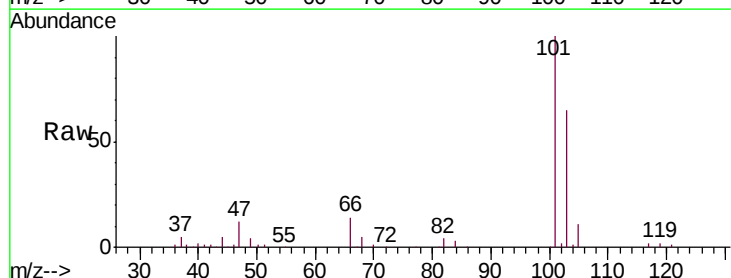
Acq: 20 Jun 2019 16:43

Tgt Ion: 101 Resp: 60019

Ion Ratio Lower Upper

101 100

103 65.5 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VU032887.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU032887.D (-236) (-)

1.88

50000

40000

30000

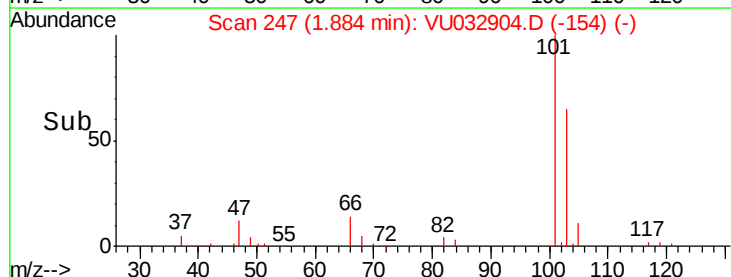
20000

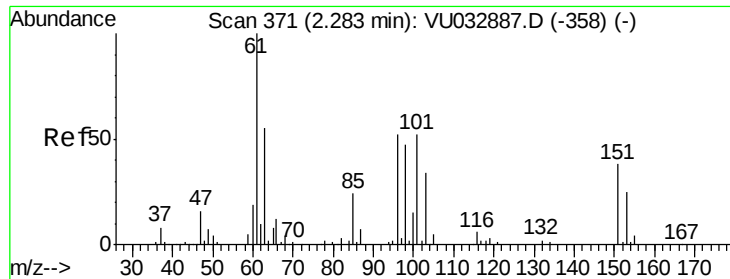
10000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 5.236 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

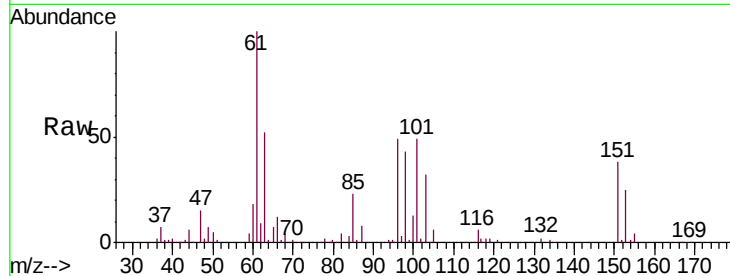
Tgt Ion:101 Resp: 31764

Ion Ratio Lower Upper

101 100

85 47.8 38.9 58.3

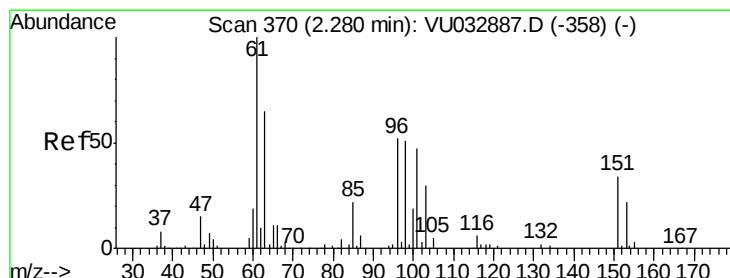
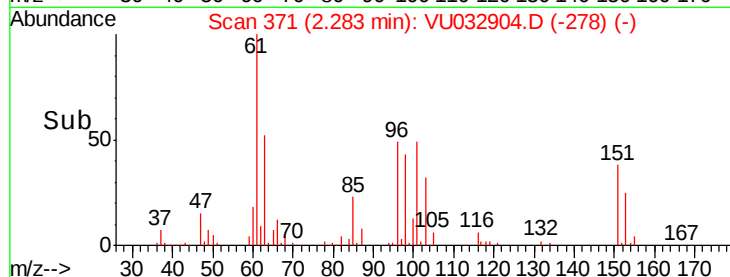
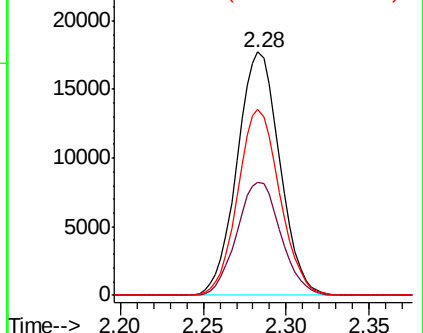
151 75.4 61.0 91.4



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: 4.852 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

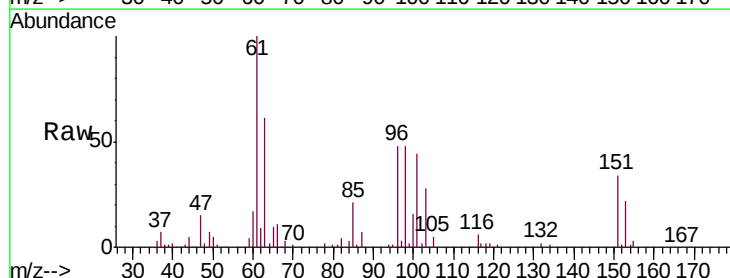
Tgt Ion: 96 Resp: 28104

Ion Ratio Lower Upper

96 100

61 206.8 131.8 244.8

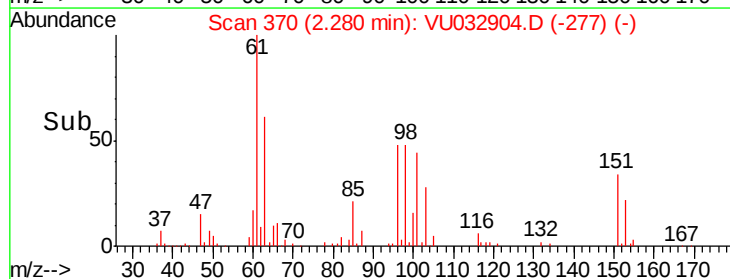
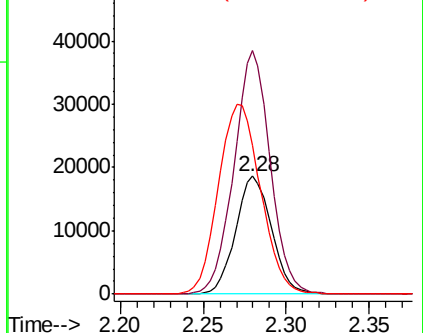
63 126.4 90.1 167.3

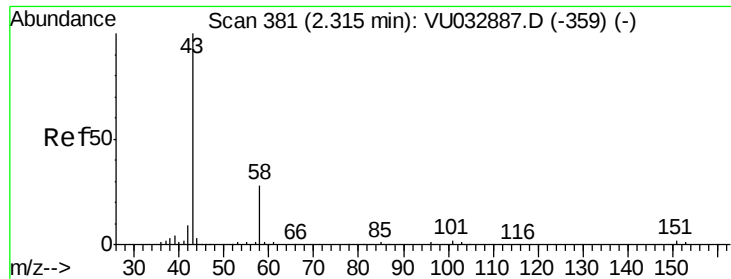


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 52.676 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

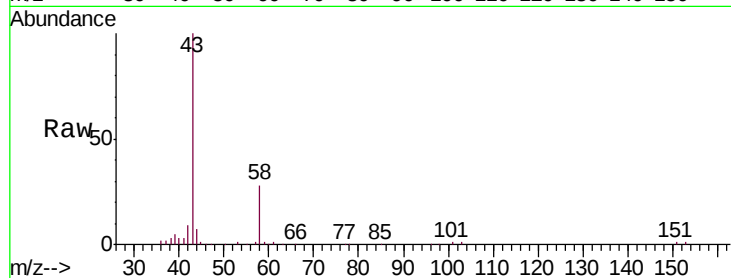
VSTD00502

Tgt Ion: 43 Resp: 67625

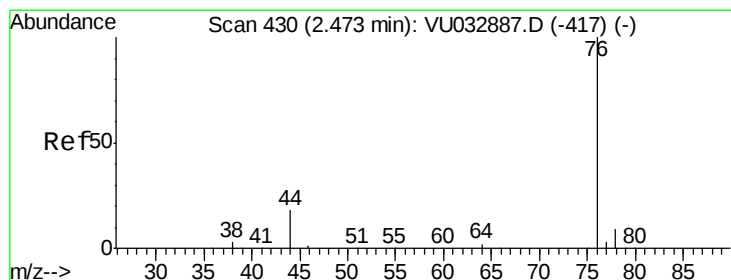
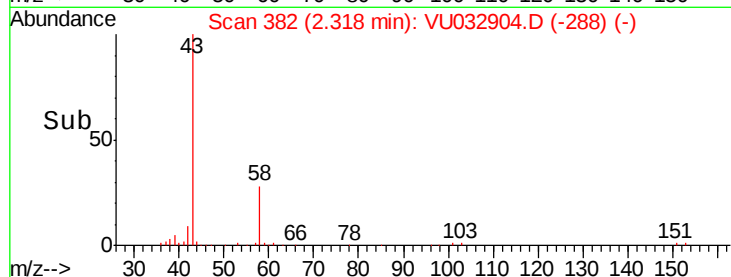
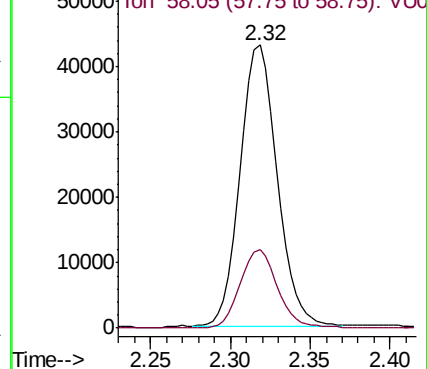
Ion Ratio Lower Upper

43 100

58 28.4 0.0 60.8



Abundance Ion 43.05 (42.75 to 43.75): VU032887.D (-359) (-)



#14

Carbon disulfide

Concen: 4.806 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032904.D

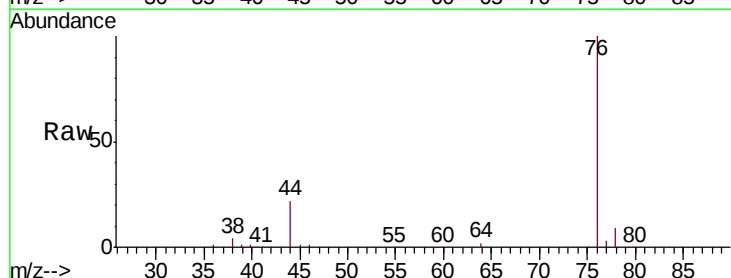
Acq: 20 Jun 2019 16:43

Tgt Ion: 76 Resp: 89135

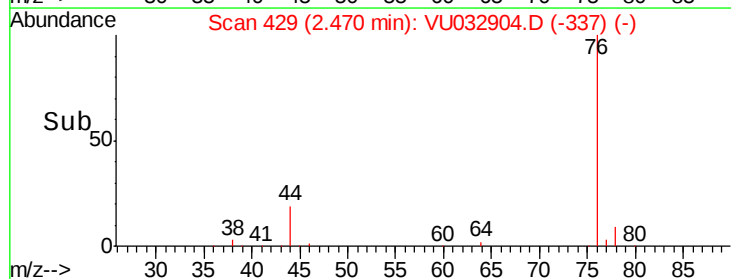
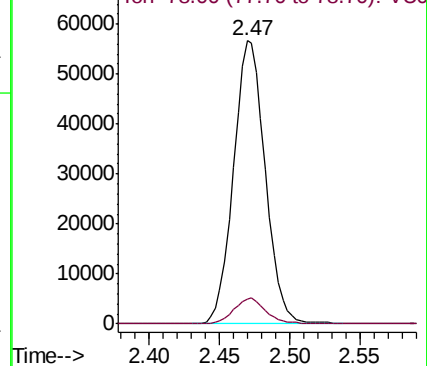
Ion Ratio Lower Upper

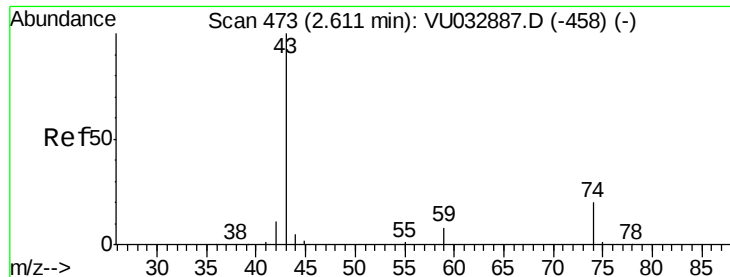
76 100

78 8.9 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU032887.D (-417) (-)

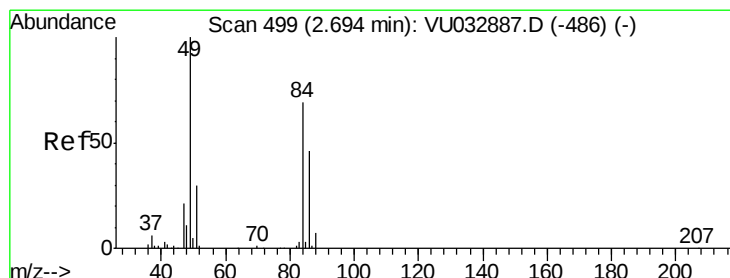
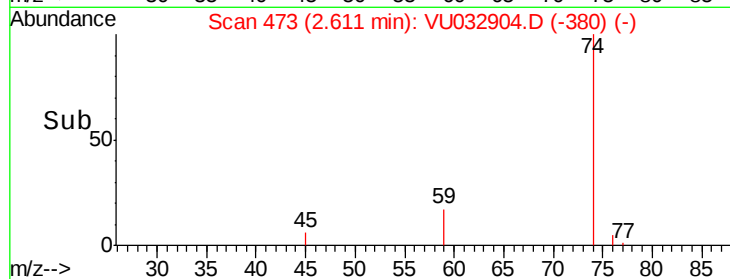
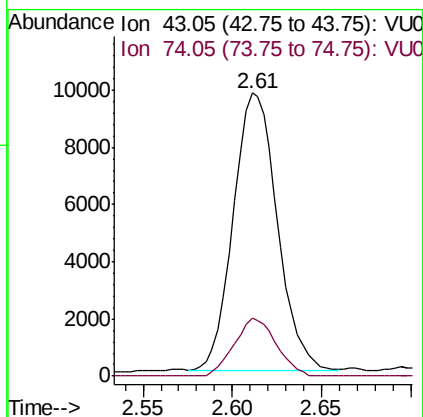
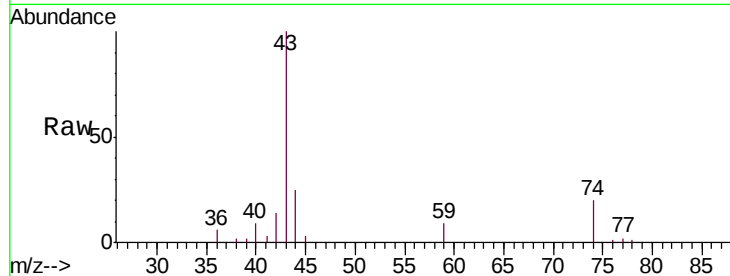




#15
Methyl Acetate
Concen: 4.745 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

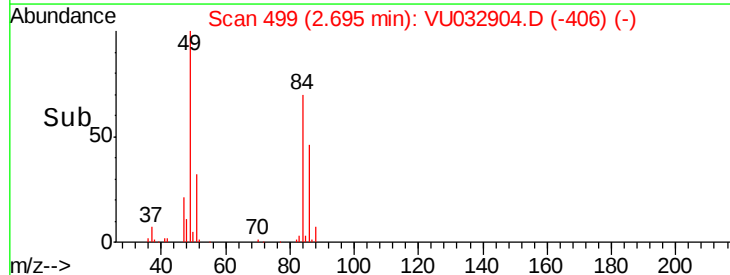
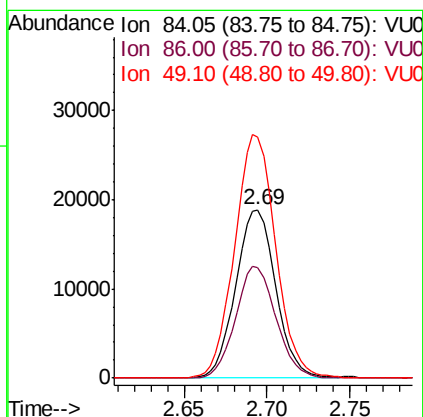
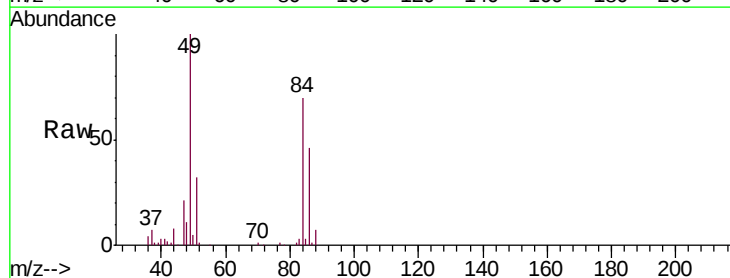
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

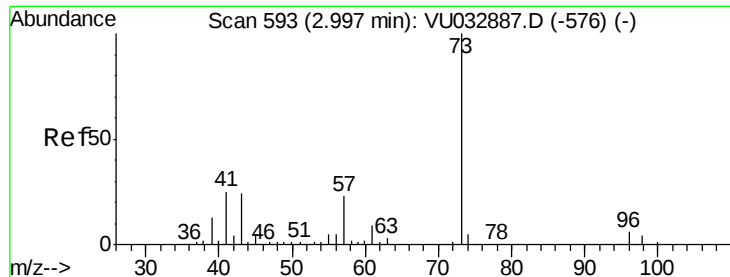
Tgt Ion: 43 Resp: 16714
Ion Ratio Lower Upper
43 100
74 19.8 17.8 26.8



#16
Methylene chloride
Concen: 4.953 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

Tgt Ion: 84 Resp: 31811
Ion Ratio Lower Upper
84 100
86 65.3 47.2 87.6
49 143.1 95.9 178.1

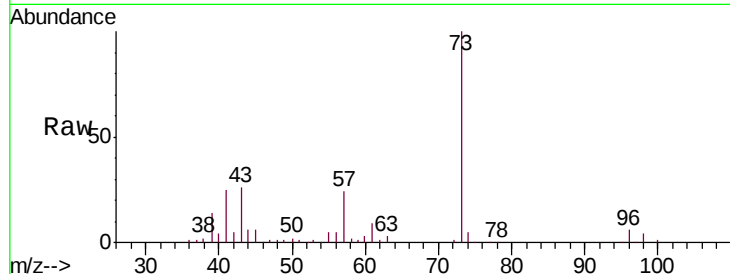




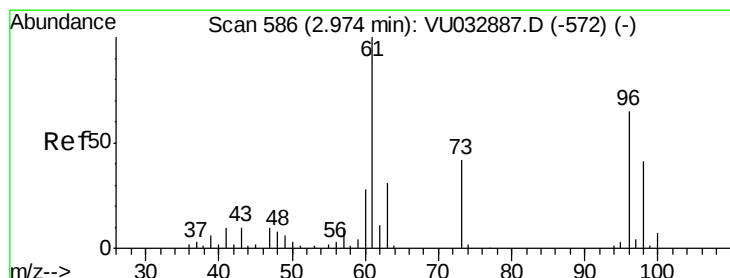
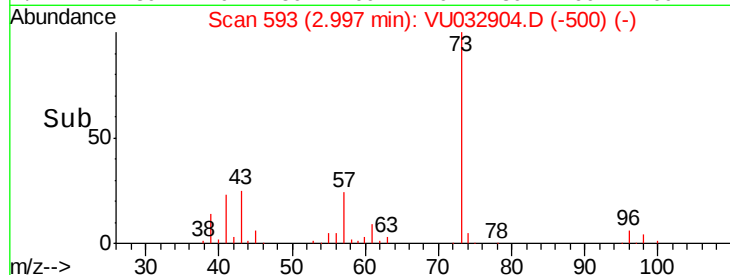
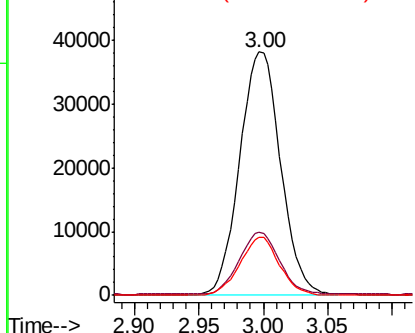
#17
Methyl tert-butyl Ether
Concen: 4.996 ug/L
RT: 3.00 min Scan# 593
Delta R.T. 0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion: 73 Resp: 84624
Ion Ratio Lower Upper
73 100
43 24.9 18.6 27.8
57 23.1 18.3 27.5

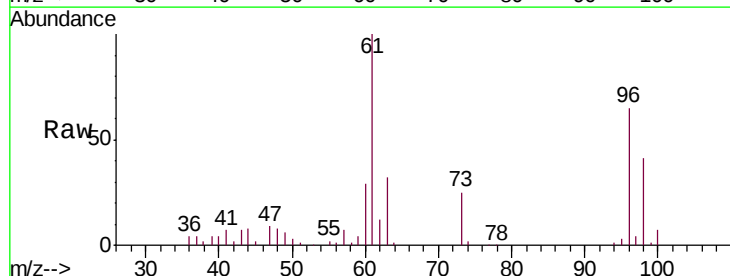


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

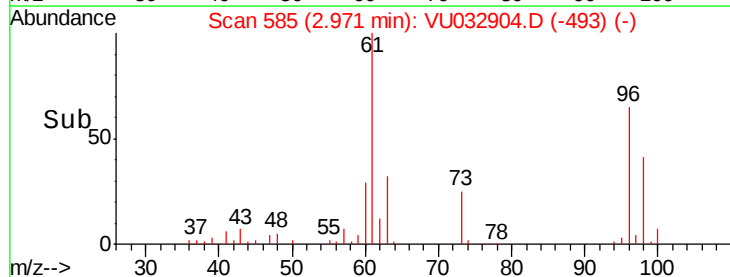
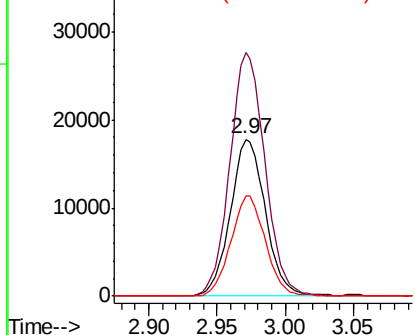


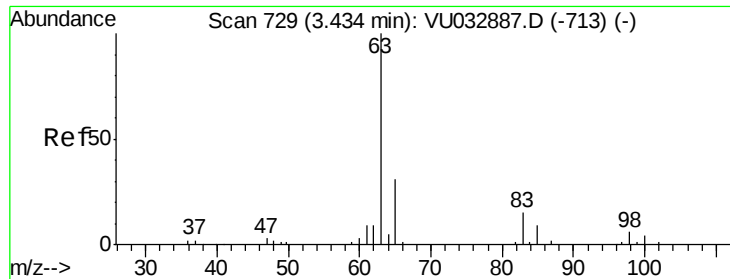
#18
trans-1,2-Dichloroethene
Concen: 5.075 ug/L
RT: 2.97 min Scan# 585
Delta R.T. -0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

Tgt Ion: 96 Resp: 31712
Ion Ratio Lower Upper
96 100
61 155.0 103.1 191.5
98 63.9 43.7 81.1



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

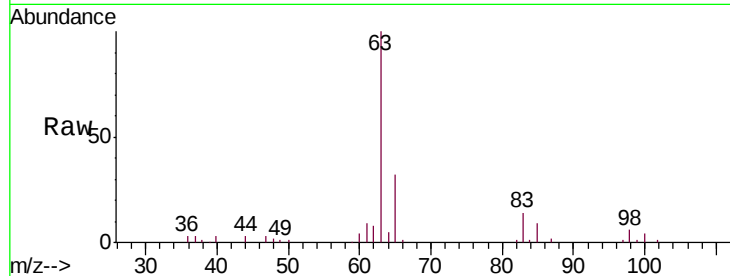




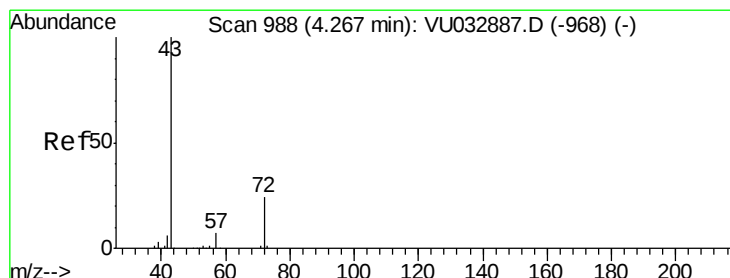
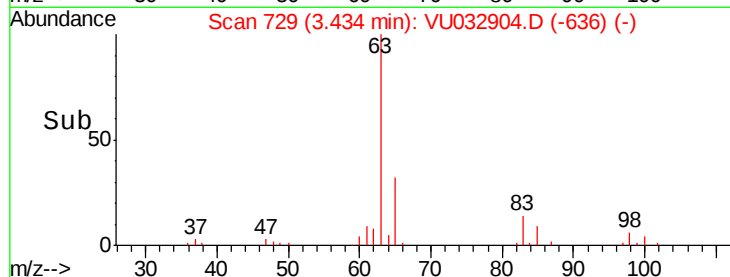
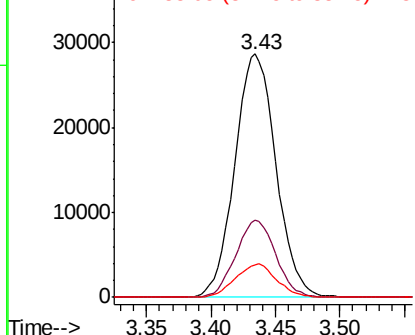
#19
 1,1-Dichloroethane
 Concen: 5.696 ug/L
 RT: 3.43 min Scan# 729
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion: 63 Resp: 63710
 Ion Ratio Lower Upper
 63 100
 65 31.7 21.3 39.6
 83 13.5 10.1 18.7

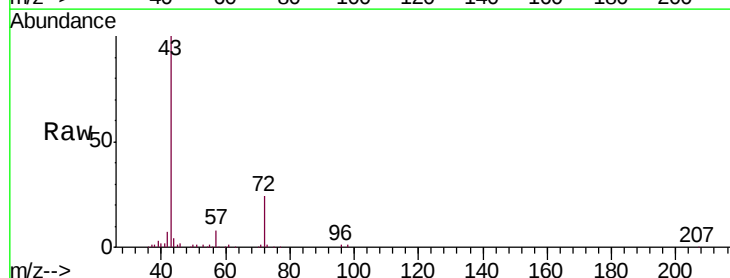


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

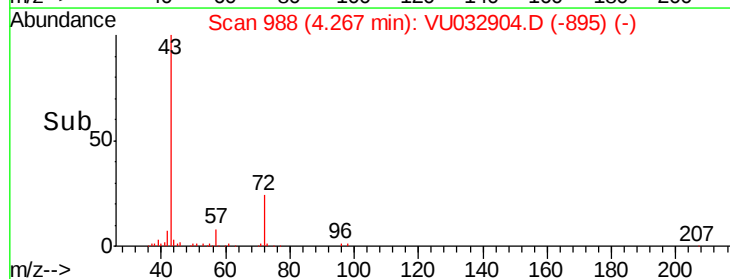
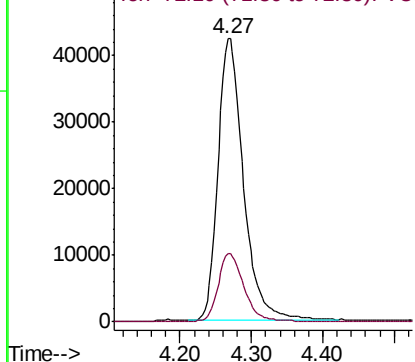


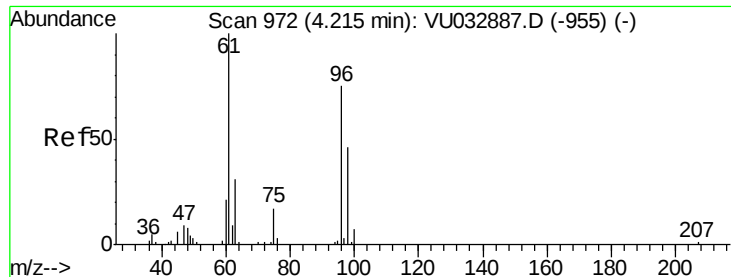
#21
 2-Butanone
 Concen: 56.453 ug/L
 RT: 4.27 min Scan# 988
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion: 43 Resp: 105407
 Ion Ratio Lower Upper
 43 100
 72 24.9 13.1 39.3



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



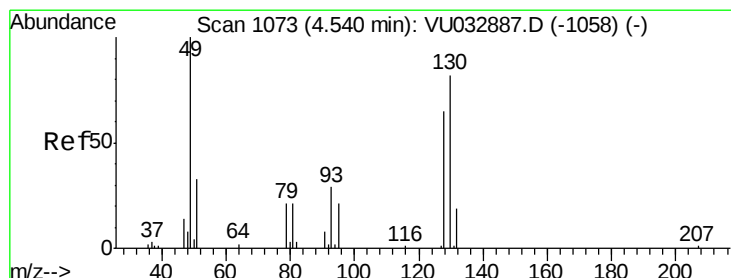
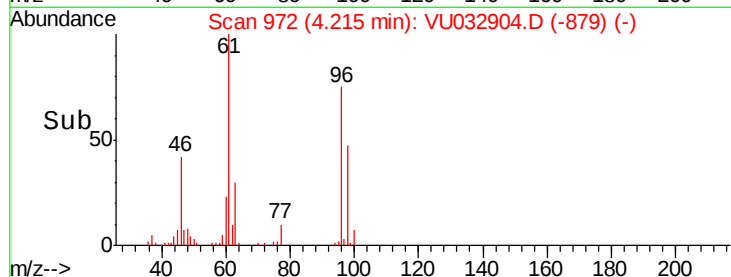
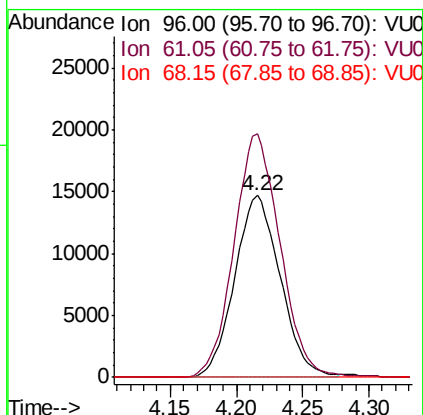
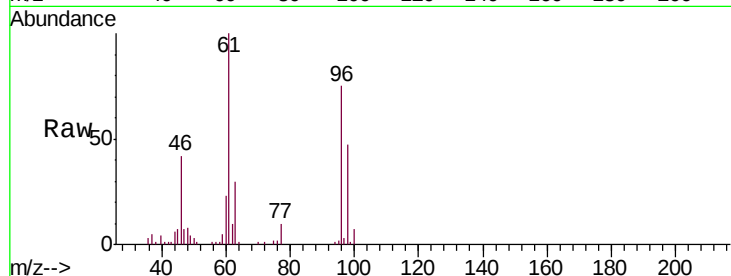


#22

cis-1,2-Dichloroethene
 Concen: 4.974 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

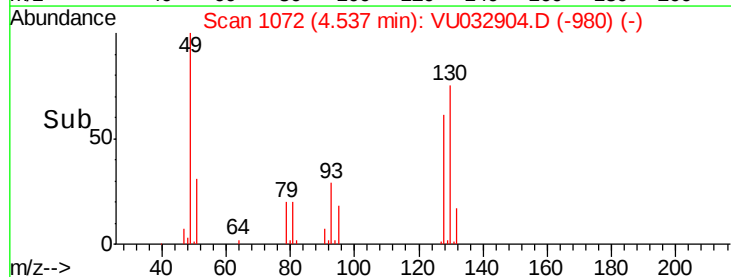
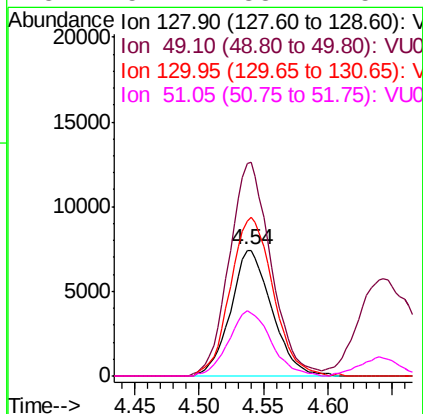
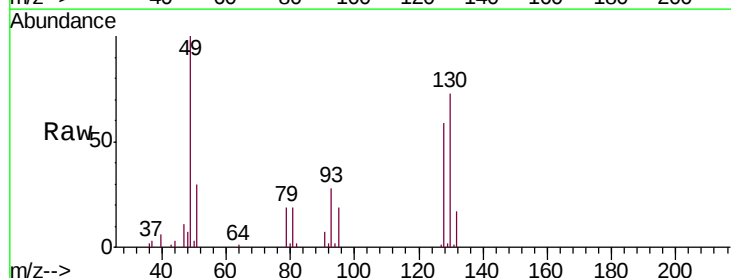
Tgt Ion: 96 Resp: 35179
 Ion Ratio Lower Upper
 96 100
 61 134.1 86.6 160.8
 68 0.0 0.0 0.0

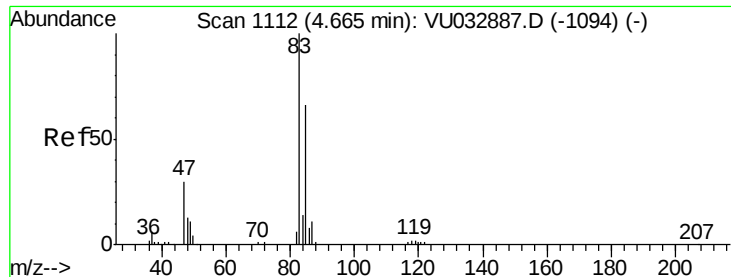


#23

Bromochloromethane
 Concen: 5.428 ug/L
 RT: 4.54 min Scan# 1072
 Delta R.T. -0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion: 128 Resp: 16521
 Ion Ratio Lower Upper
 128 100
 49 168.9 107.8 200.2
 130 123.3 89.3 165.9
 51 51.4 38.2 57.4

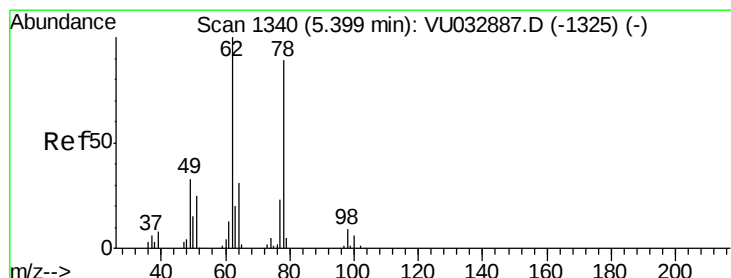
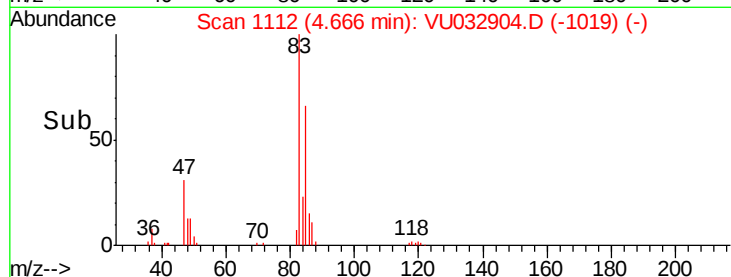
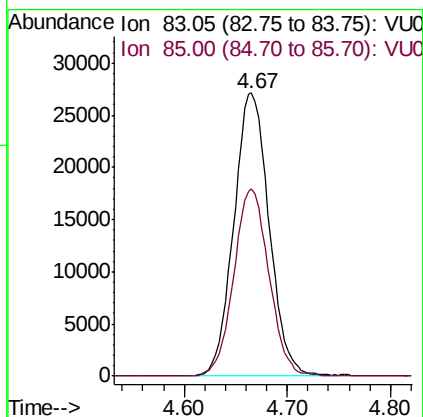
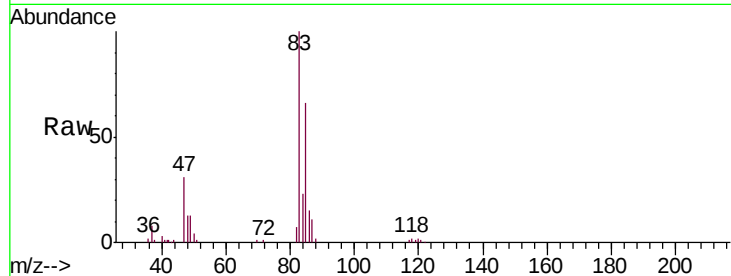




#25
Chloroform
Concen: 5.661 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

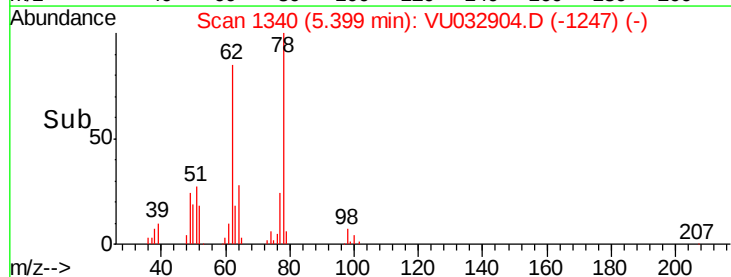
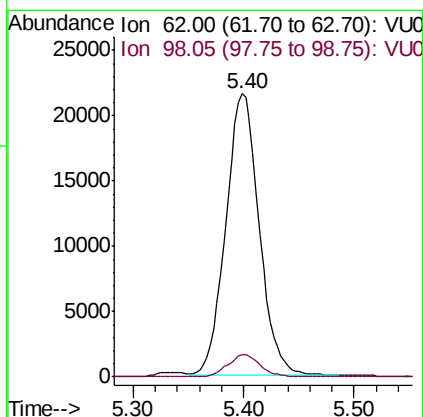
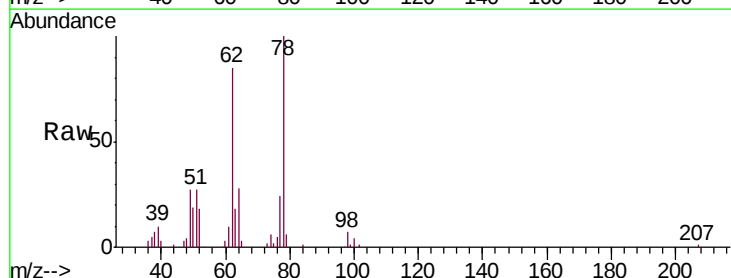
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

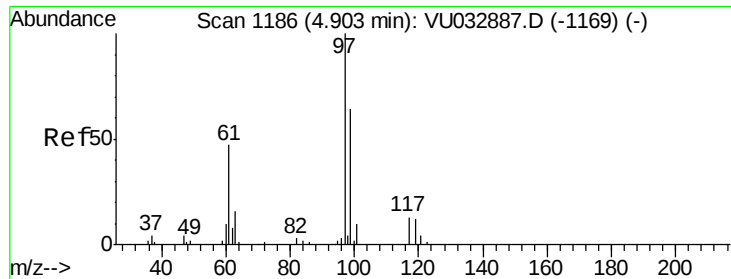
Tgt Ion: 83 Resp: 64681
Ion Ratio Lower Upper
83 100
85 66.0 43.8 81.3



#27
1,2-Dichloroethane
Concen: 6.017 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

Tgt Ion: 62 Resp: 45185
Ion Ratio Lower Upper
62 100
98 8.0 7.0 10.6

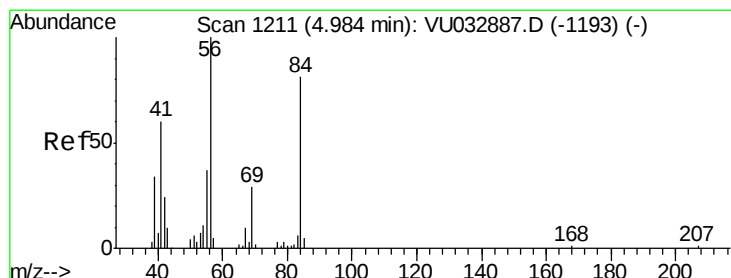
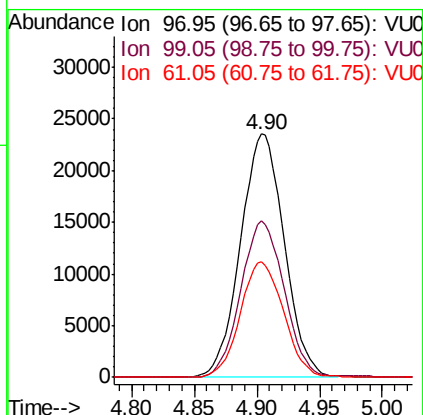
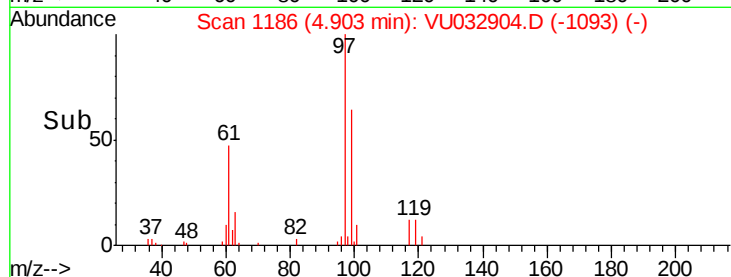
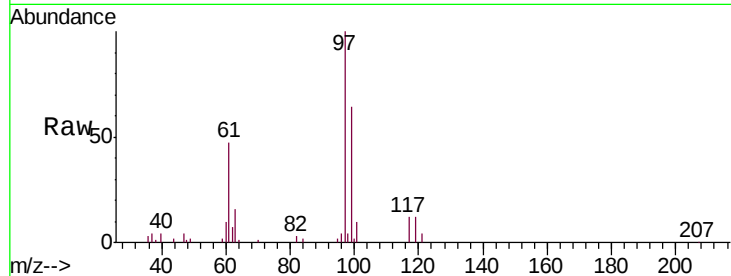




#29
 1,1,1-Trichloroethane
 Concen: 5.098 ug/L
 RT: 4.90 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

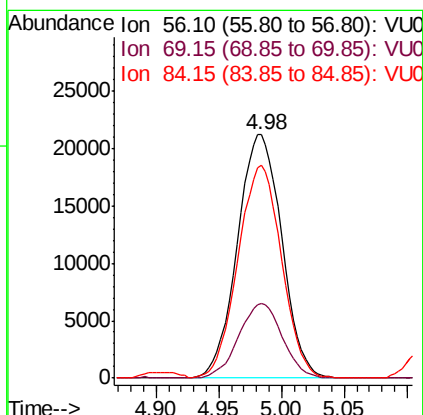
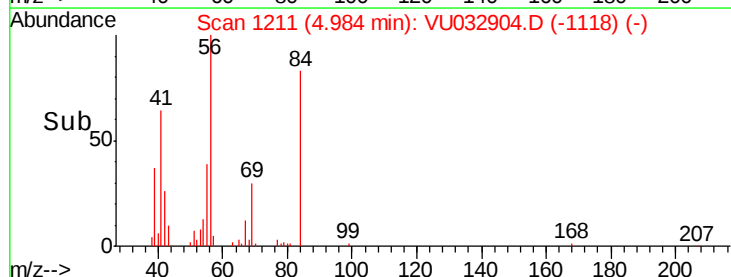
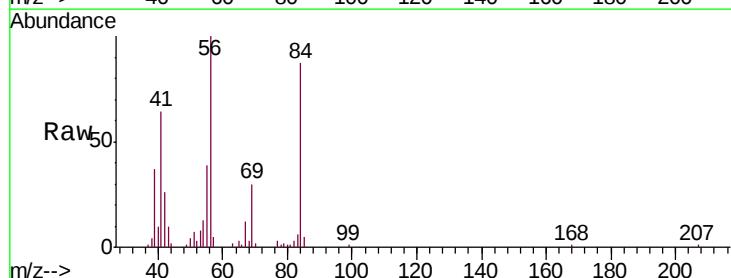
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

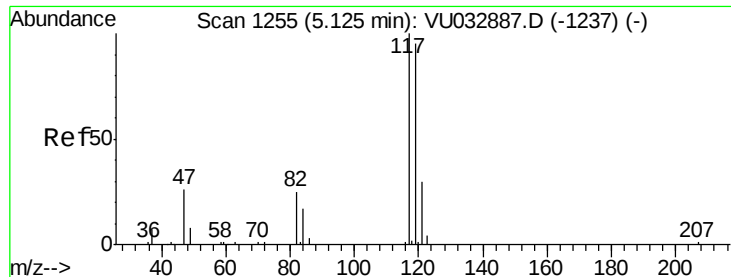
Tgt Ion: 97 Resp: 57200
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.8 77.6
 61 46.9 34.7 52.1



#30
 Cyclohexane
 Concen: 4.395 ug/L
 RT: 4.98 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion: 56 Resp: 52114
 Ion Ratio Lower Upper
 56 100
 69 30.0 24.9 37.3
 84 86.1 70.2 105.2





#31

Carbon tetrachloride

Concen: 4.940 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

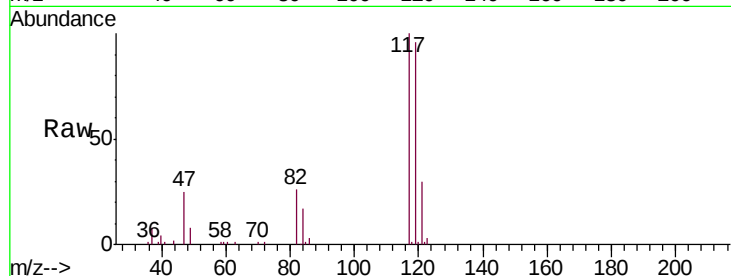
VSTD00502

Tgt Ion:117 Resp: 50387

Ion Ratio Lower Upper

117 100

119 96.8 77.8 116.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.12

25000

20000

15000

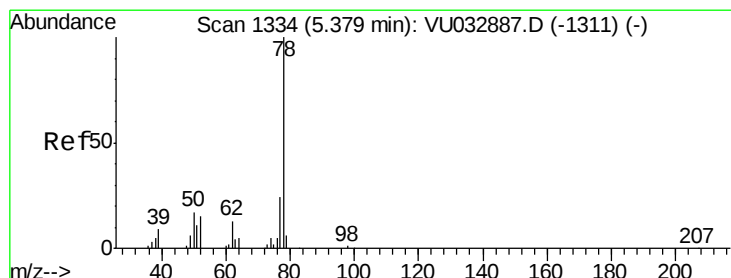
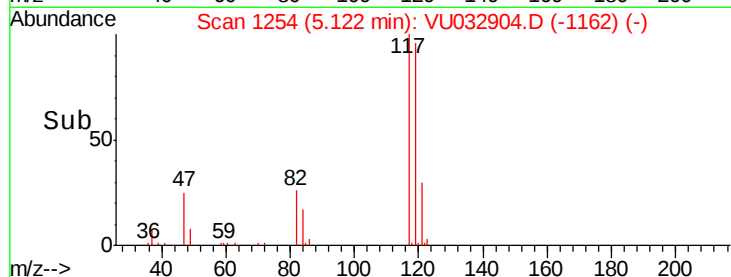
10000

5000

0

Time-->

5.05 5.10 5.15 5.20



#33

Benzene

Concen: 4.852 ug/L

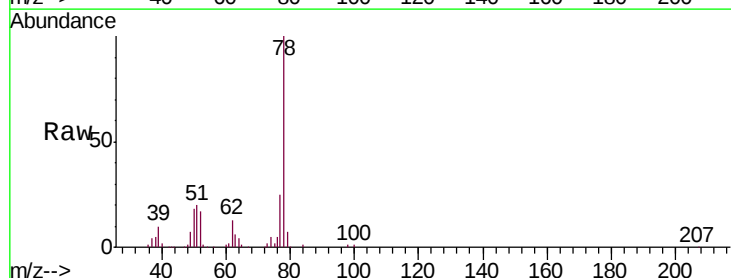
RT: 5.38 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Tgt Ion: 78 Resp: 131700



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.38

60000

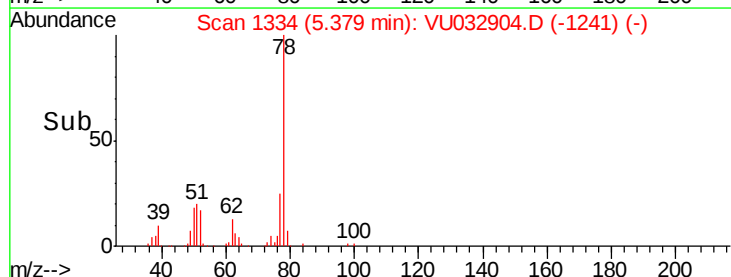
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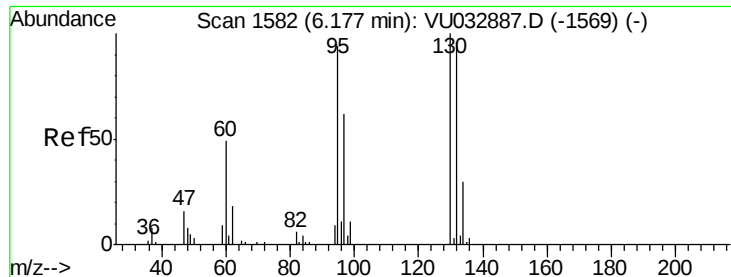
20000

0

Time-->

5.30 5.40 5.50

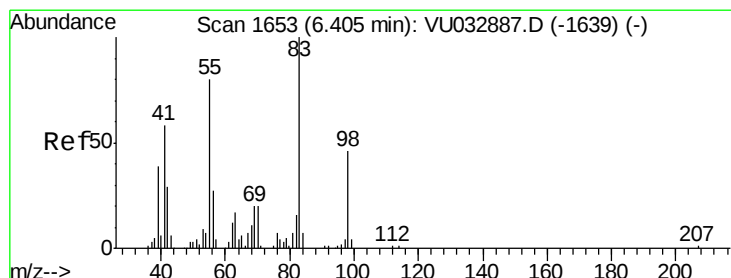
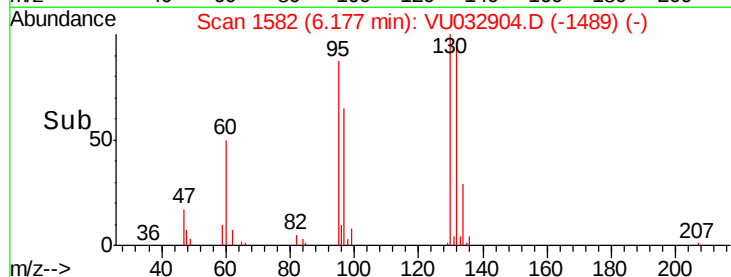
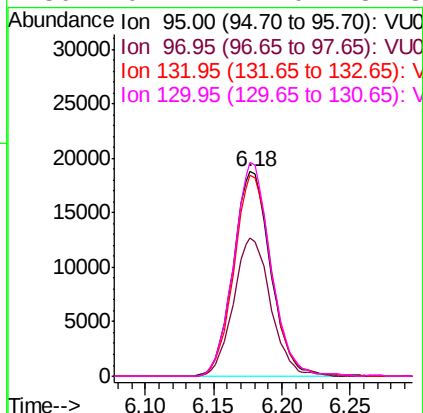
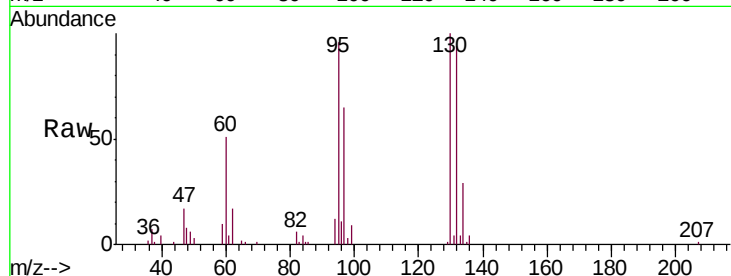




#34
 Trichloroethene
 Concen: 4.587 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

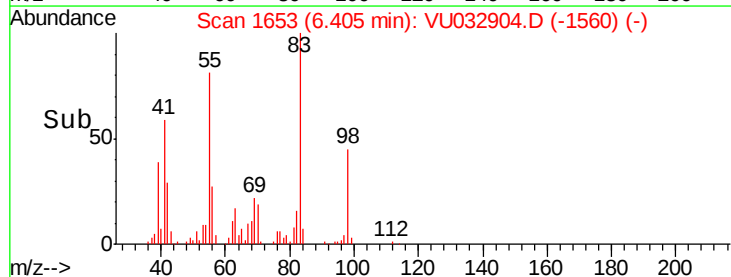
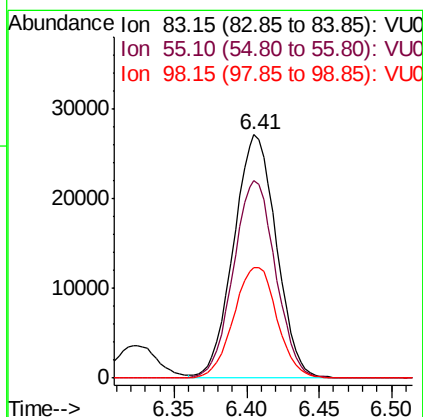
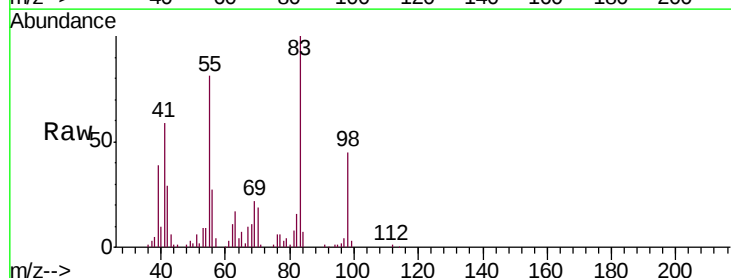
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

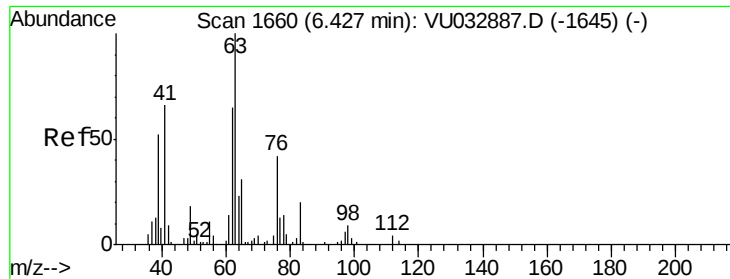
Tgt Ion:	95	Resp:	35814
Ion	Ratio	Lower	Upper
95	100		
97	67.8	44.1	81.9
132	98.6	68.8	127.8
130	104.4	71.0	131.8



#35
 Methylcyclohexane
 Concen: 4.421 ug/L
 RT: 6.41 min Scan# 1653
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion:	83	Resp:	55518
Ion	Ratio	Lower	Upper
83	100		
55	80.1	60.0	90.0
98	46.2	37.8	56.8

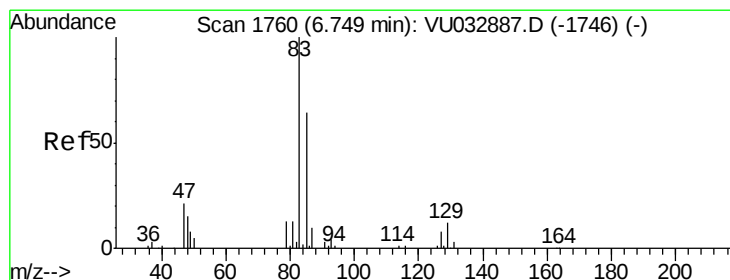
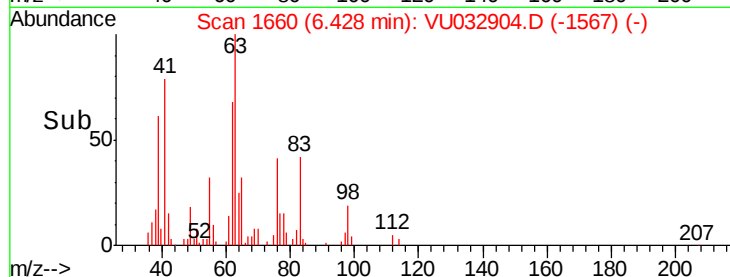
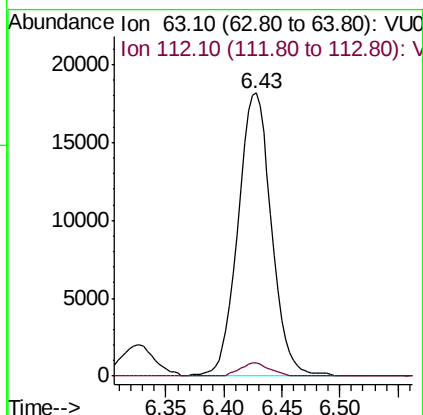
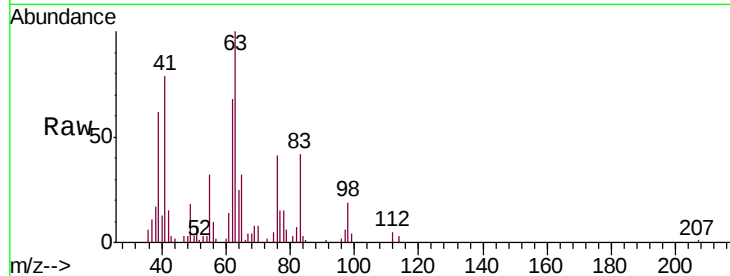




#37
 1,2-Dichloropropane
 Concen: 5.191 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

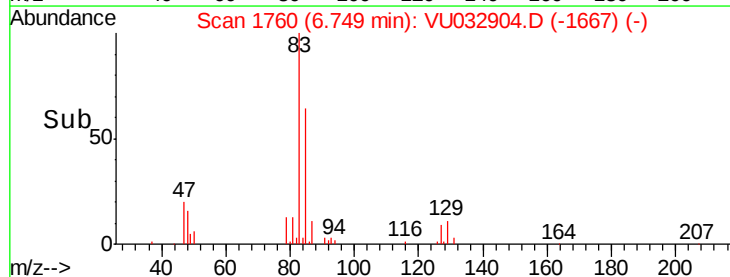
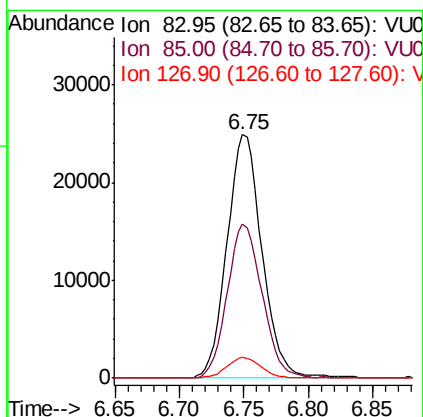
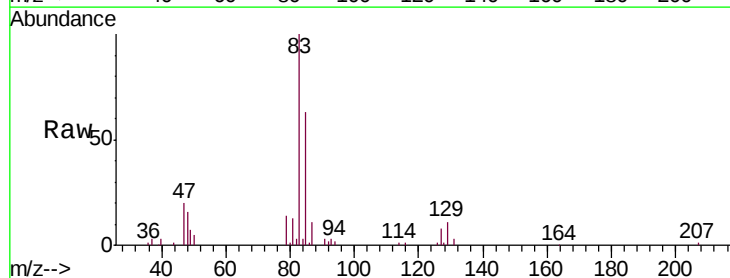
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

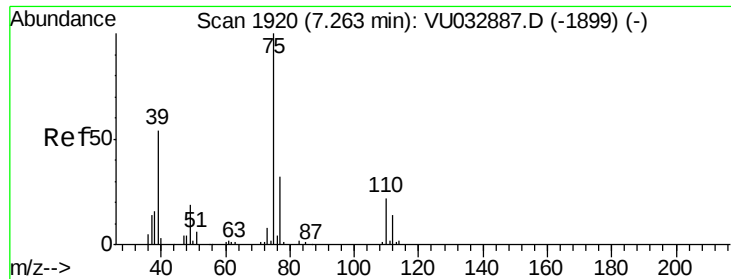
Tgt Ion: 63 Resp: 36460
 Ion Ratio Lower Upper
 63 100
 112 4.1 2.9 4.3



#38
 Bromodichloromethane
 Concen: 5.200 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion: 83 Resp: 46940
 Ion Ratio Lower Upper
 83 100
 85 63.2 45.2 84.0
 127 8.5 7.4 11.2

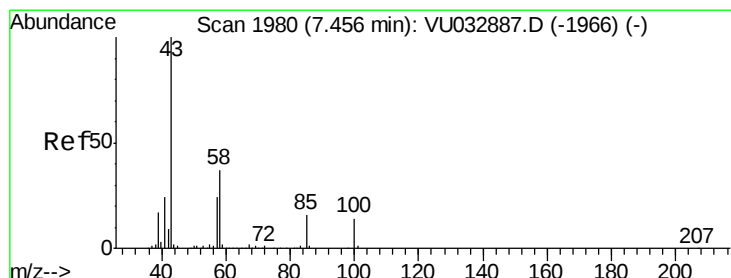
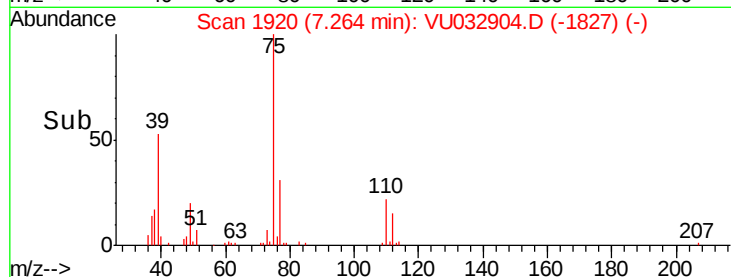
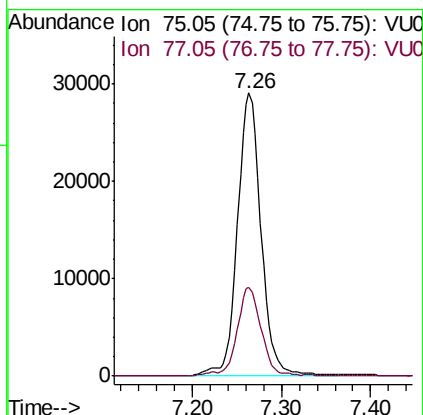
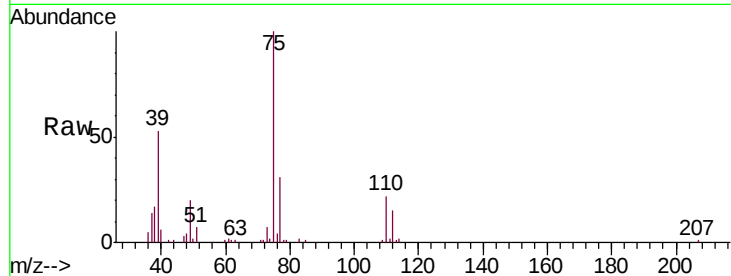




#39
 cis-1,3-Dichloropropene
 Concen: 4.959 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

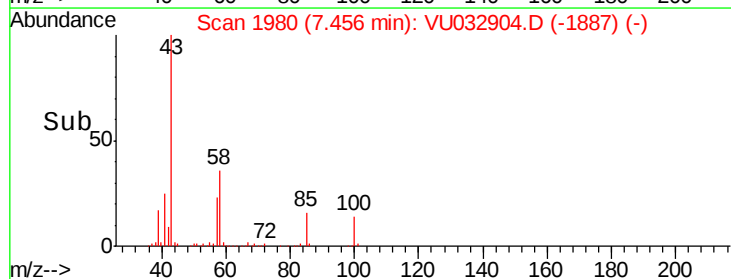
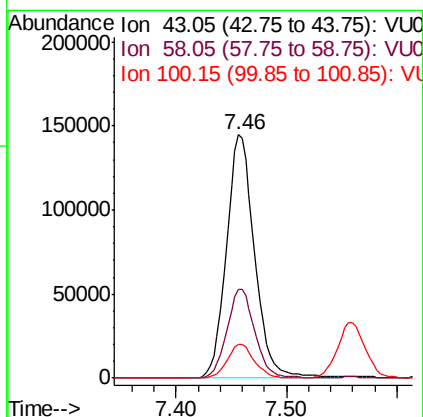
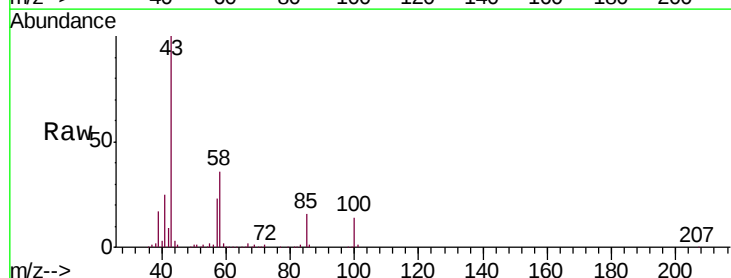
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

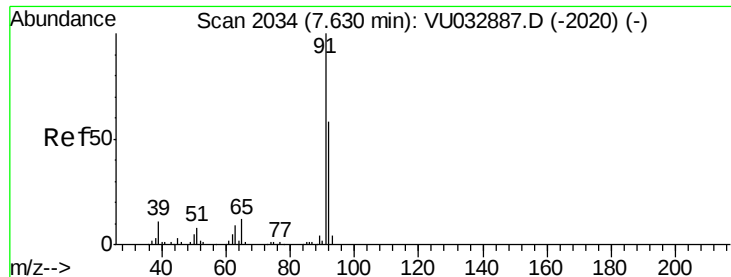
Tgt Ion: 75 Resp: 53468
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 51.257 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion: 43 Resp: 256182
 Ion Ratio Lower Upper
 43 100
 58 36.2 30.9 46.3
 100 13.4 11.9 17.9





#42

Toluene

Concen: 4.852 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

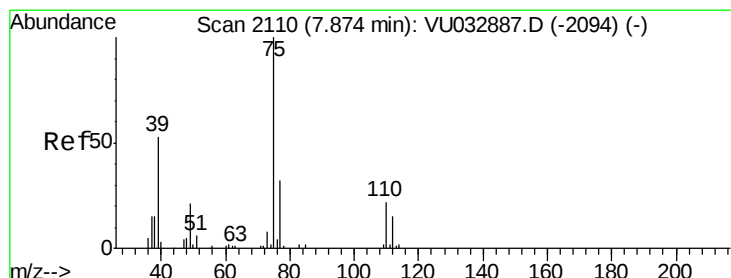
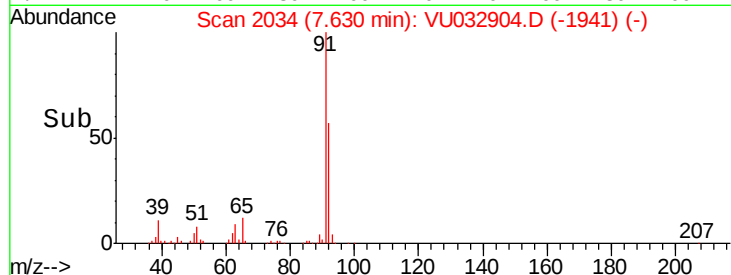
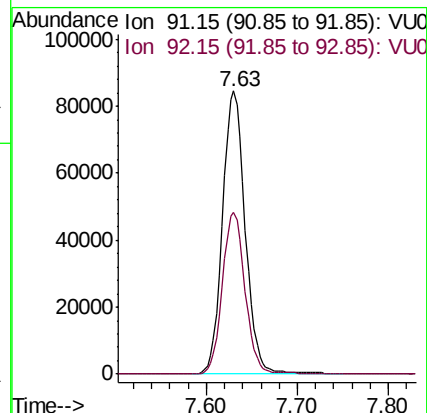
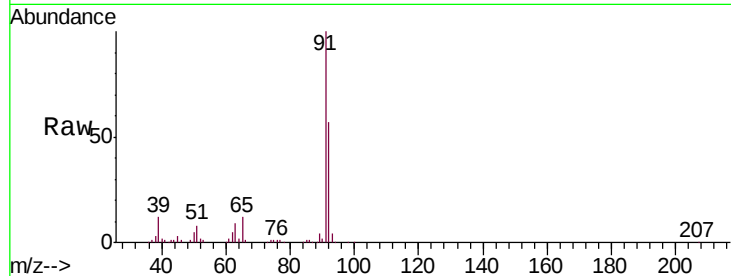
VSTD00502

Tgt Ion: 91 Resp: 146774

Ion Ratio Lower Upper

91 100

92 57.3 40.9 75.9



#44

trans-1,3-Dichloropropene

Concen: 5.062 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032904.D

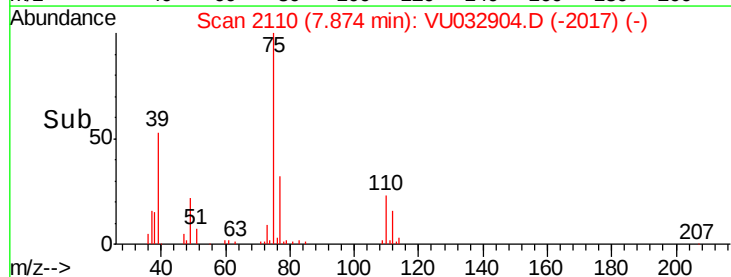
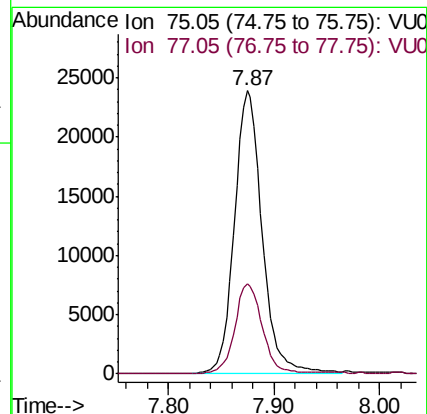
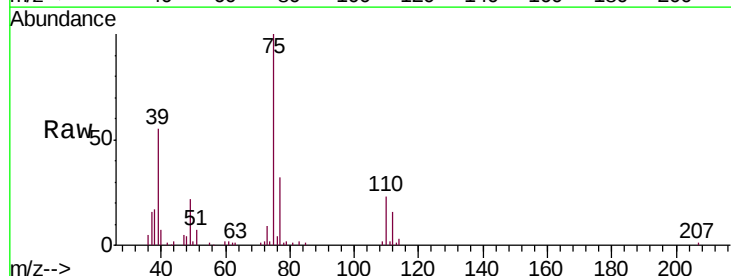
Acq: 20 Jun 2019 16:43

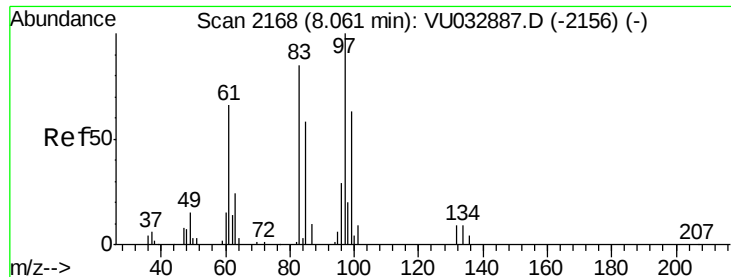
Tgt Ion: 75 Resp: 43580

Ion Ratio Lower Upper

75 100

77 31.8 22.5 41.7

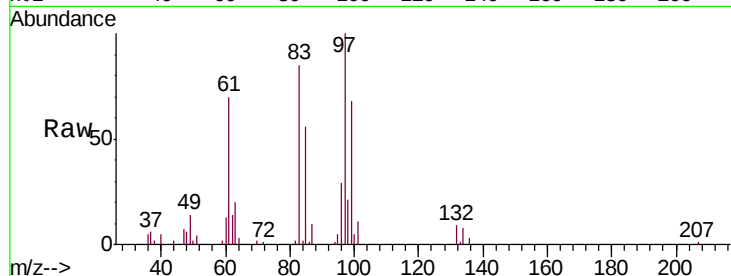




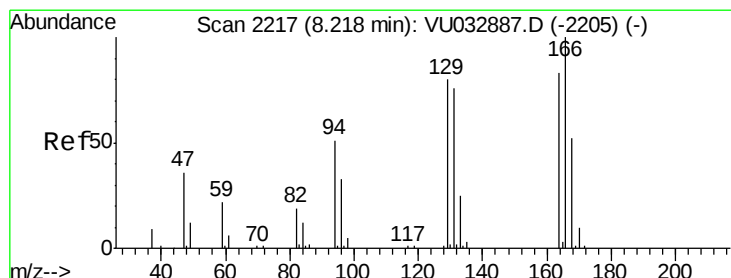
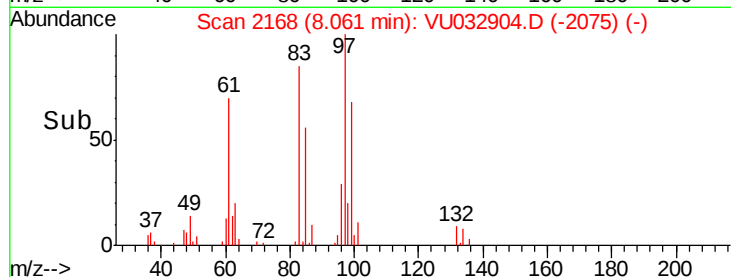
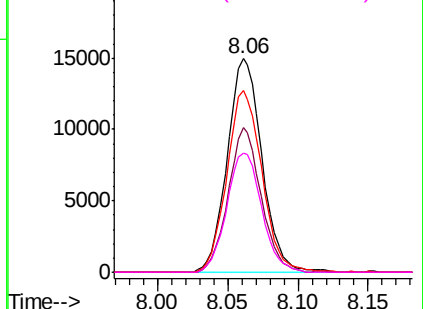
#45
 1,1,2-Trichloroethane
 Concen: 5.038 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion:	97	Resp:	25744
Ion	Ratio	Lower	Upper
97	100		
99	67.9	44.9	83.3
83	85.1	58.7	108.9
85	56.0	37.9	70.5

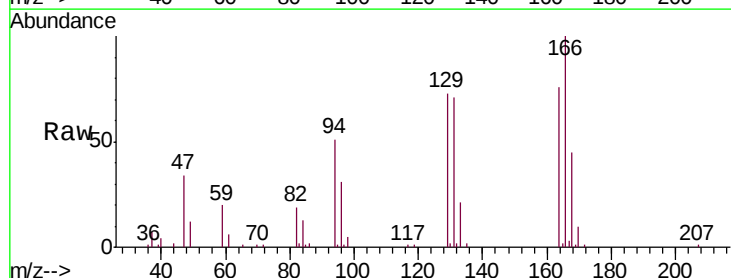


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

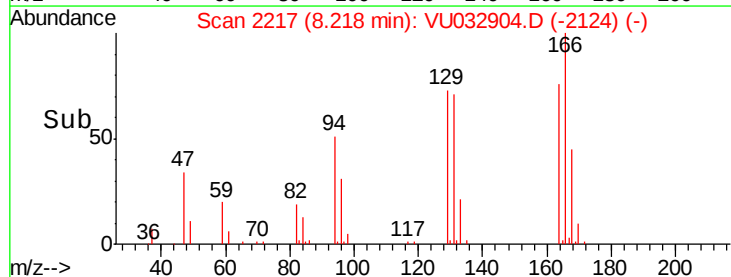
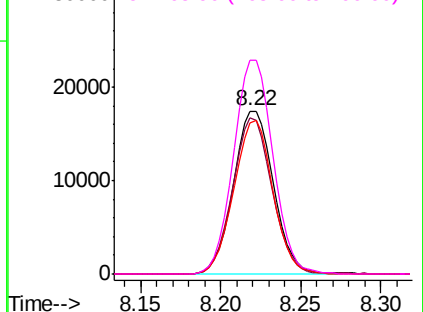


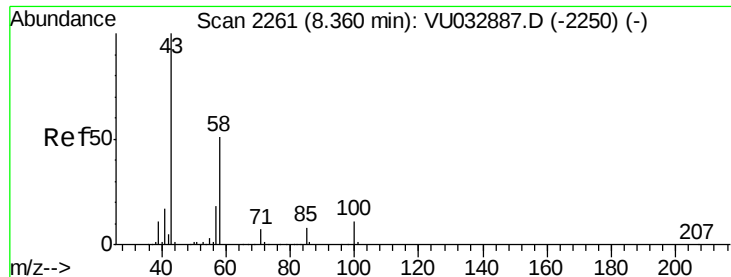
#47
 Tetrachloroethene
 Concen: 4.831 ug/L
 RT: 8.22 min Scan# 2217
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion:	164	Resp:	29683
Ion	Ratio	Lower	Upper
164	100		
129	96.1	66.1	122.7
131	93.1	65.6	121.8
166	130.9	93.2	173.2



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

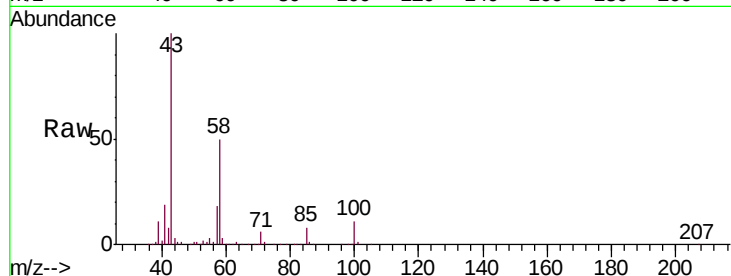




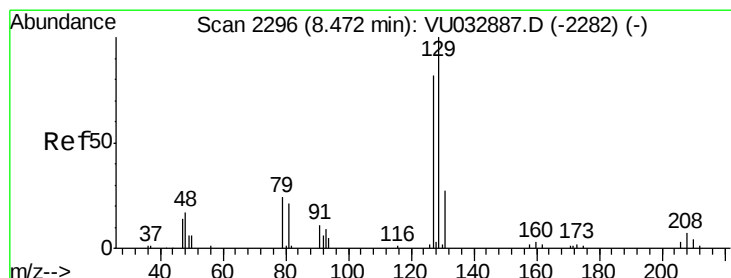
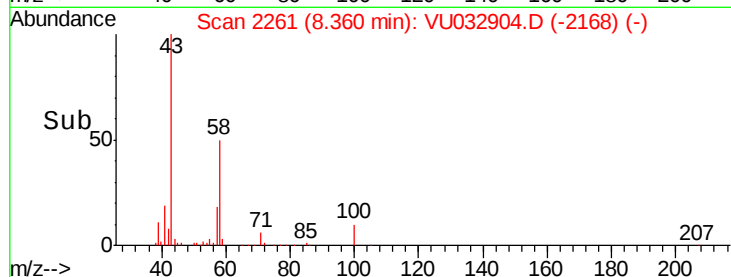
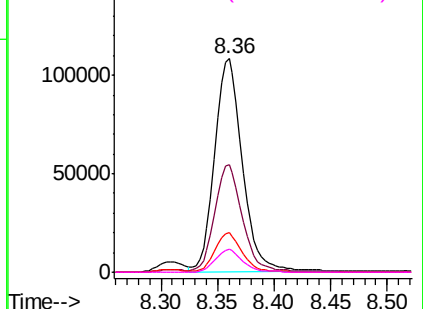
#48
2-Hexanone
Concen: 51.541 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion: 43 Resp: 184088
Ion Ratio Lower Upper
43 100
58 50.2 41.9 62.9
57 17.5 15.1 22.7
100 10.4 9.0 13.6

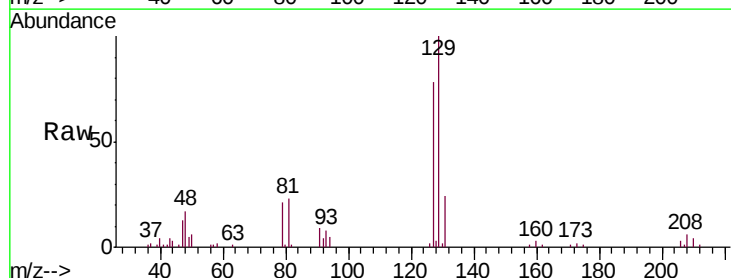


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

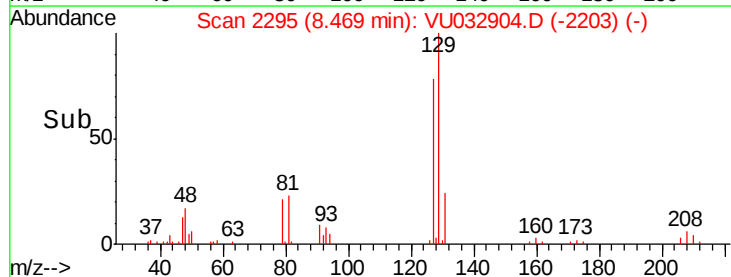
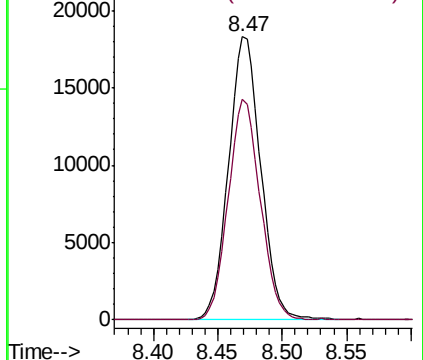


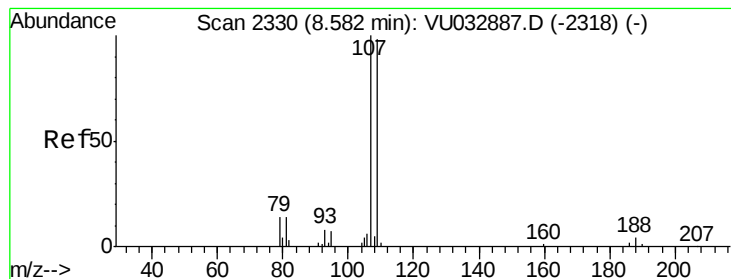
#49
Dibromochloromethane
Concen: 4.857 ug/L
RT: 8.47 min Scan# 2295
Delta R.T. -0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

Tgt Ion: 129 Resp: 31746
Ion Ratio Lower Upper
129 100
127 77.9 53.3 98.9



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





#50

1,2-Dibromoethane

Concen: 4.743 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

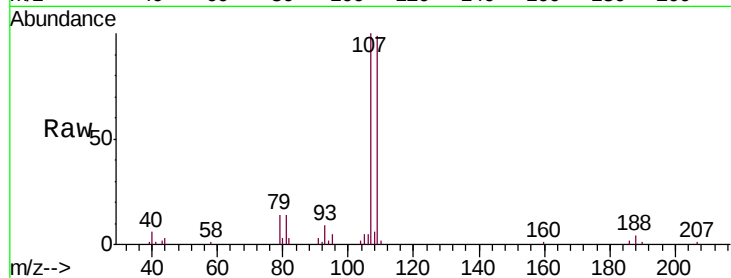
Tgt Ion:107 Resp: 24155

Ion Ratio Lower Upper

107 100

109 98.9 65.2 121.0

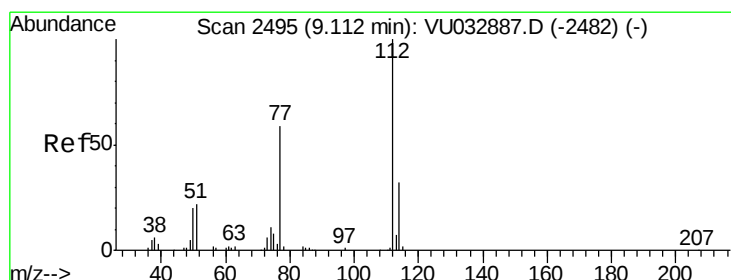
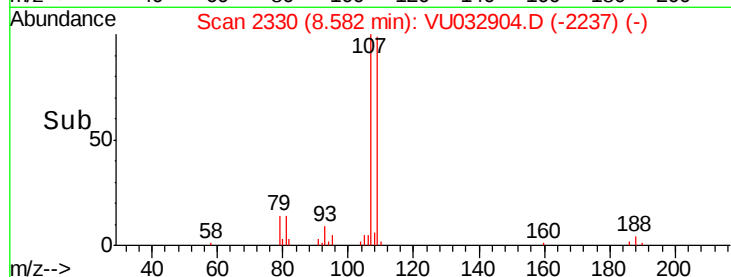
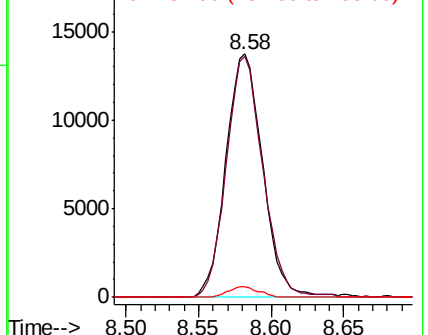
188 4.4 3.1 4.7



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: 4.955 ug/L

RT: 9.11 min Scan# 2495

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

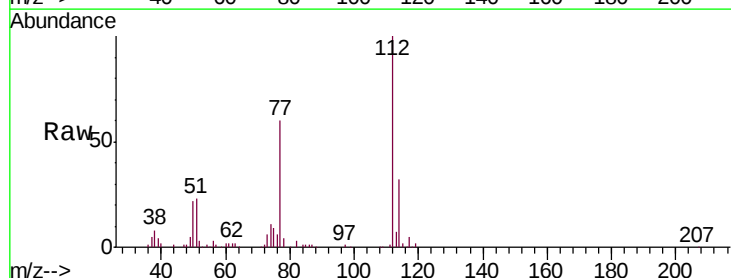
Tgt Ion:112 Resp: 93980

Ion Ratio Lower Upper

112 100

114 31.6 22.4 41.6

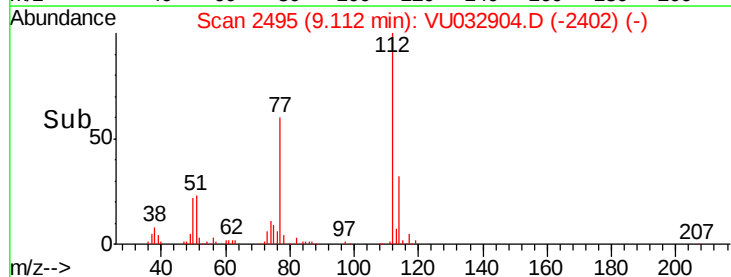
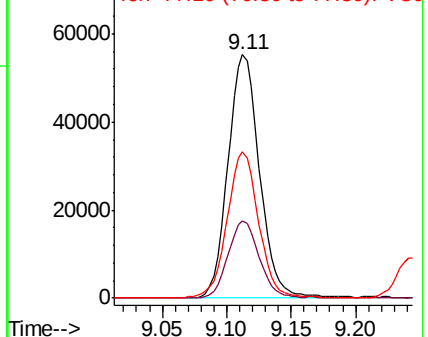
77 60.0 46.5 69.7

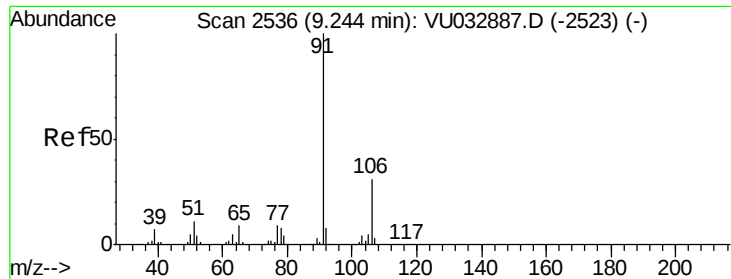


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 4.796 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

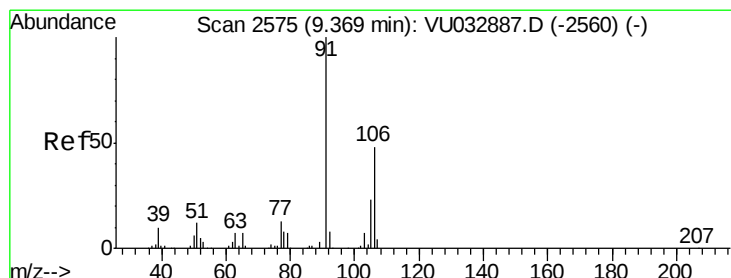
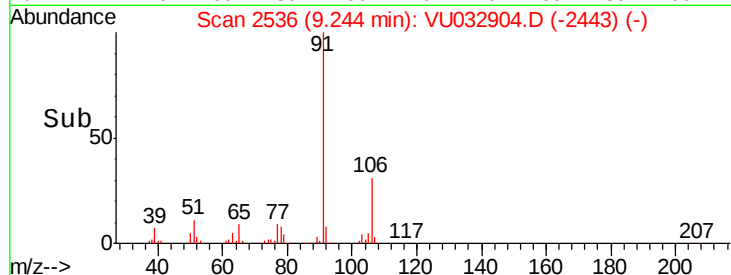
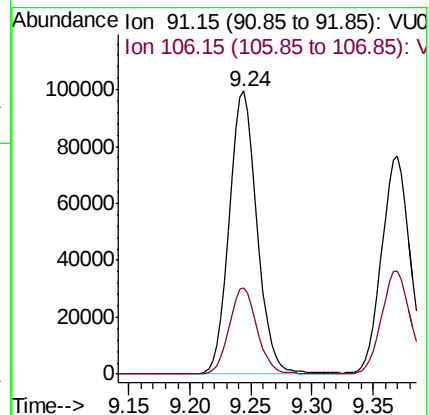
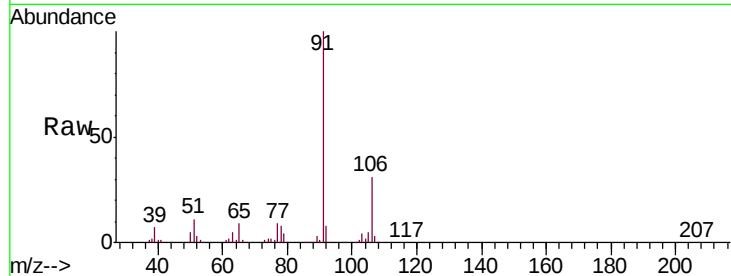
VSTD00502

Tgt Ion: 91 Resp: 159906

Ion Ratio Lower Upper

91 100

106 30.7 21.8 40.6



#53

m,p-Xylene

Concen: 4.737 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032904.D

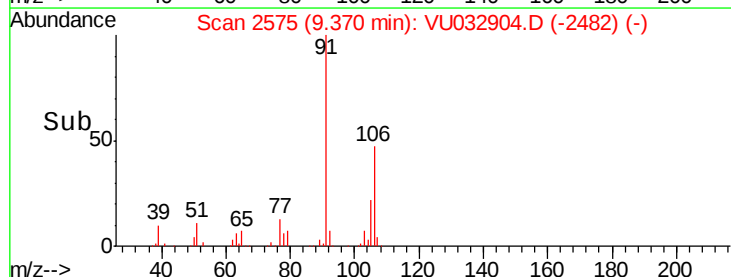
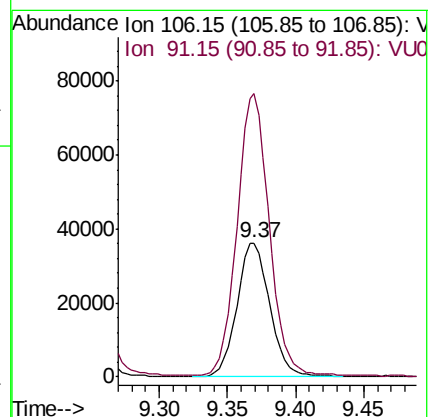
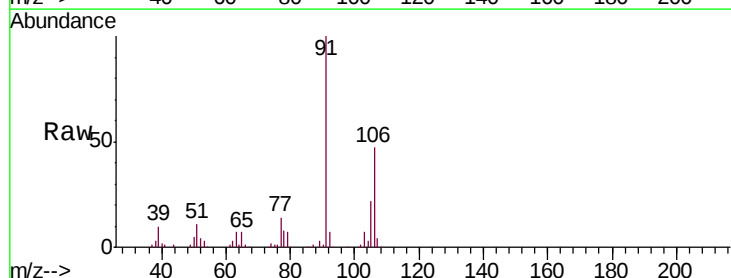
Acq: 20 Jun 2019 16:43

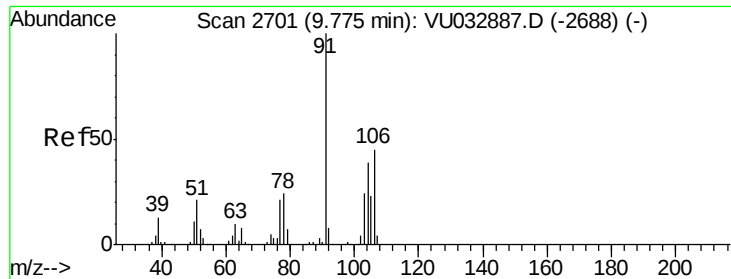
Tgt Ion: 106 Resp: 59876

Ion Ratio Lower Upper

106 100

91 211.4 142.4 264.4

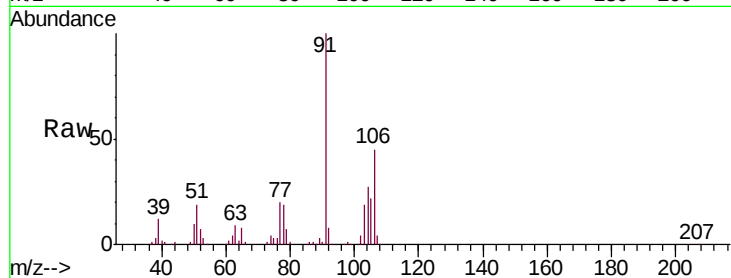




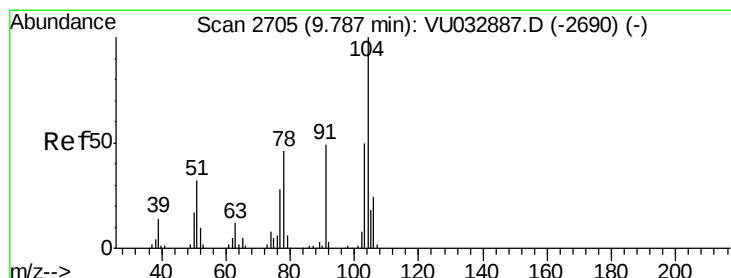
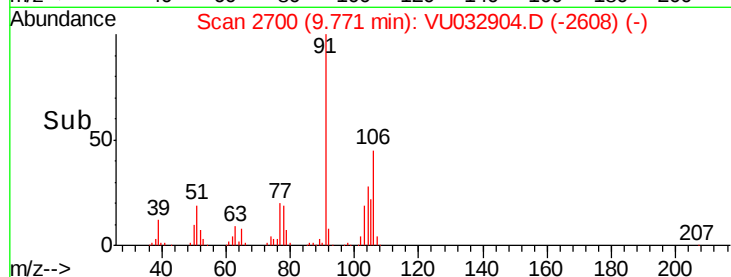
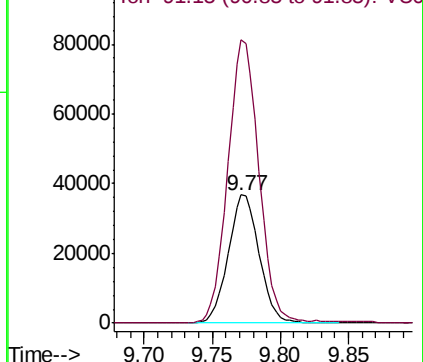
#54
o-Xylene
Concen: 4.616 ug/L
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion:106 Resp: 58234
Ion Ratio Lower Upper
106 100
91 220.8 148.8 276.4

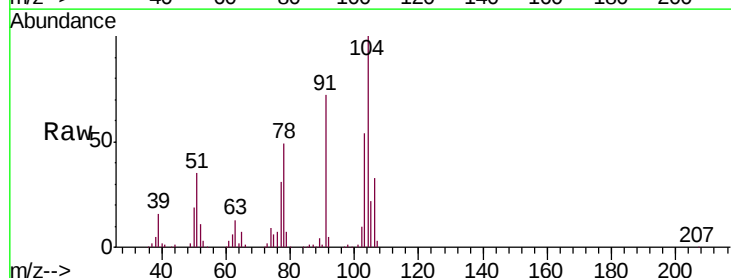


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

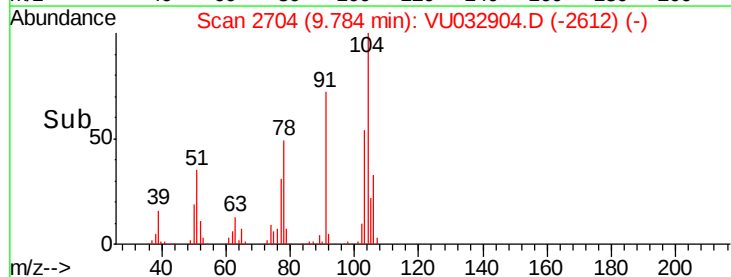
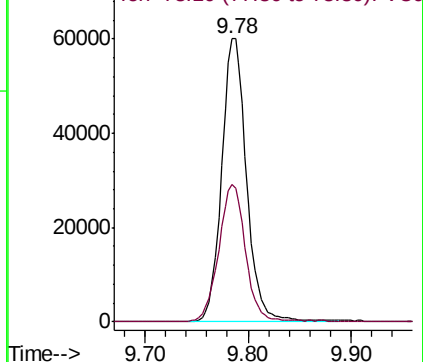


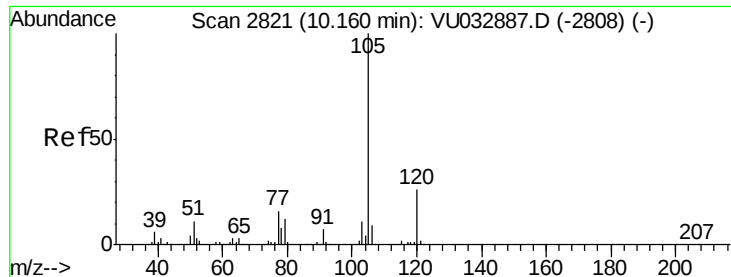
#55
Styrene
Concen: 4.868 ug/L
RT: 9.78 min Scan# 2704
Delta R.T. -0.00 min
Lab File: VU032904.D
Acq: 20 Jun 2019 16:43

Tgt Ion:104 Resp: 101029
Ion Ratio Lower Upper
104 100
78 48.7 32.2 59.8



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.759 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampled :

VSTD00502

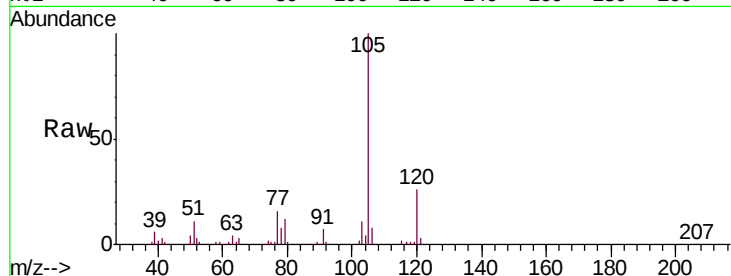
Tgt Ion: 105 Resp: 158366

Ion Ratio Lower Upper

105 100

120 26.2 21.6 32.4

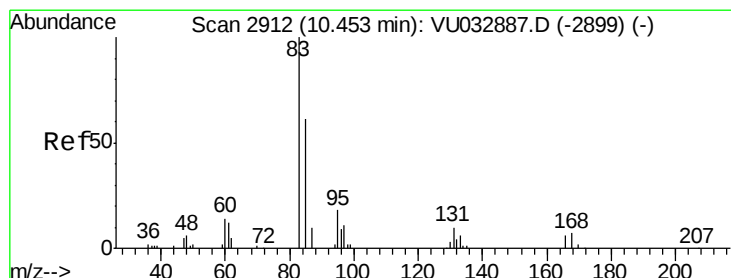
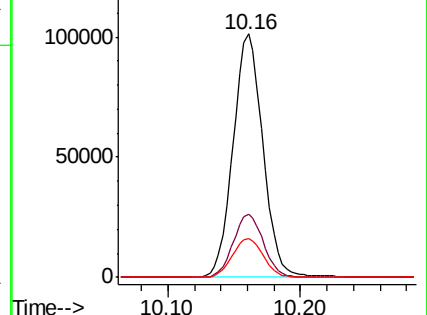
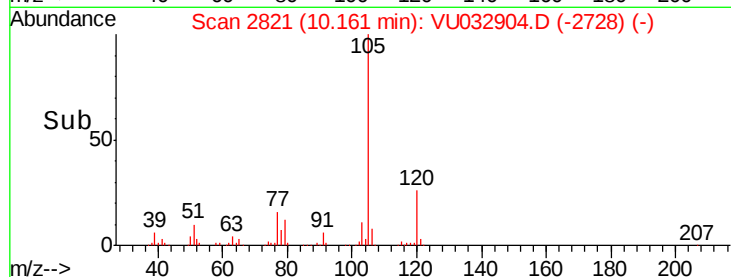
77 16.5 12.3 18.5



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: 5.100 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

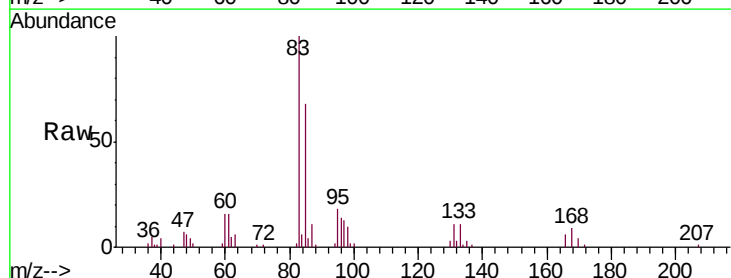
Tgt Ion: 83 Resp: 33329

Ion Ratio Lower Upper

83 100

85 68.1 45.7 84.9

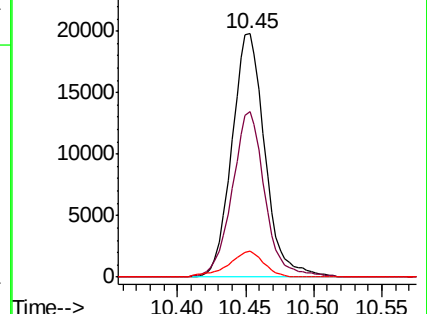
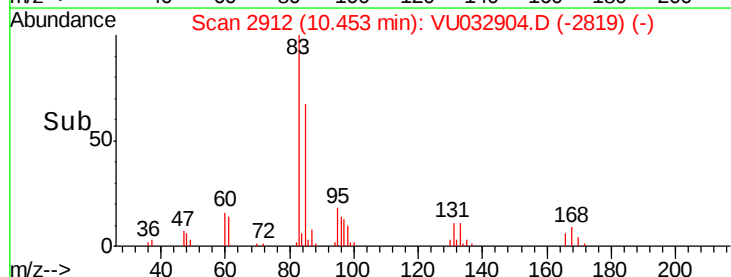
131 10.6 8.0 12.0

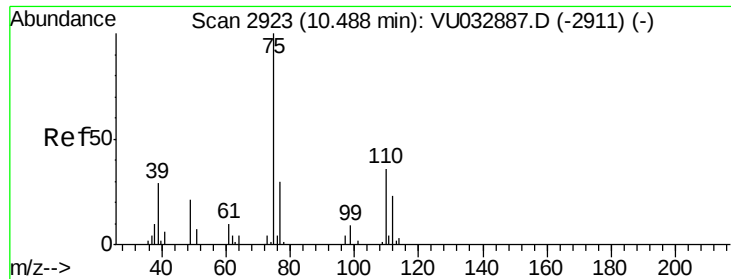


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

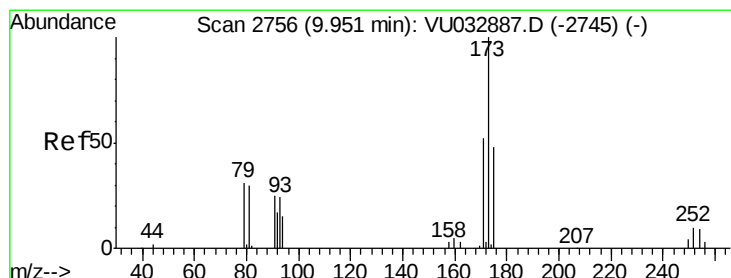
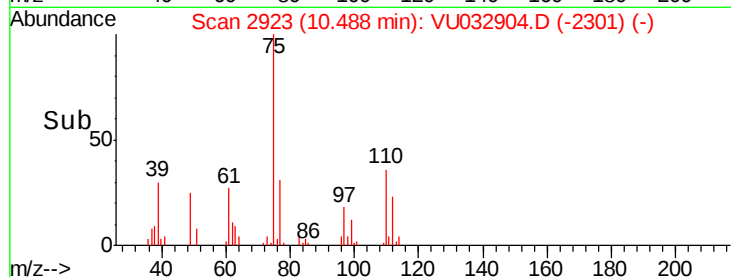
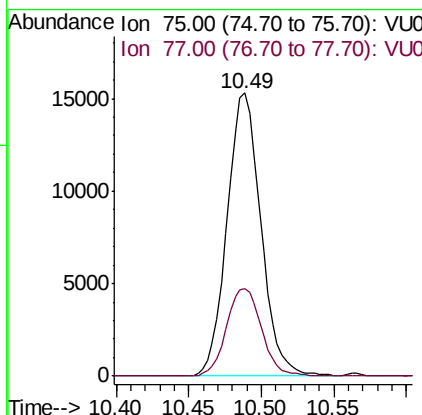
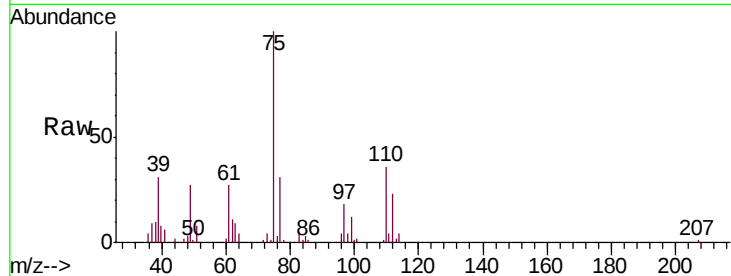




#59
 1,2,3-Trichloropropane
 Concen: 5.381 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

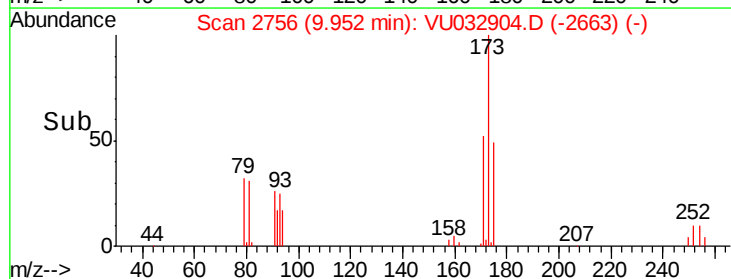
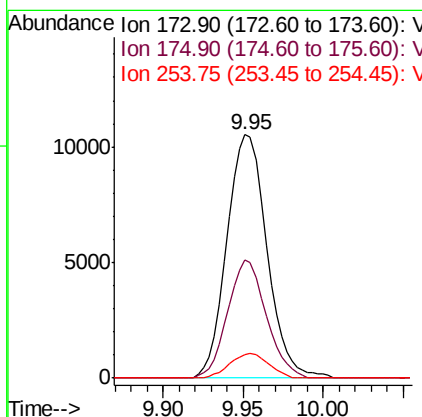
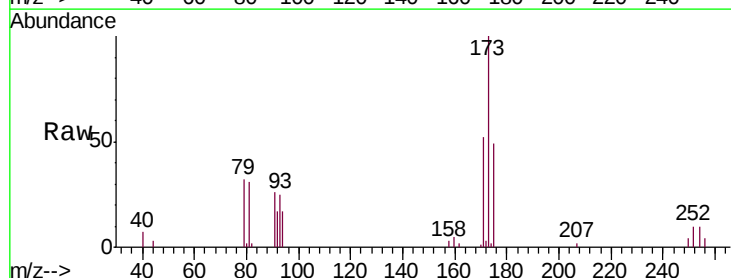
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

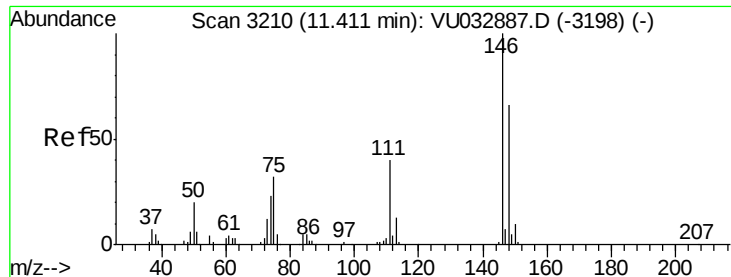
Tgt Ion: 75 Resp: 24816
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.3 37.9



#61
 Bromoform
 Concen: 4.420 ug/L
 RT: 9.95 min Scan# 2756
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion: 173 Resp: 17977
 Ion Ratio Lower Upper
 173 100
 175 46.4 37.9 56.9
 254 9.8 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 4.762 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

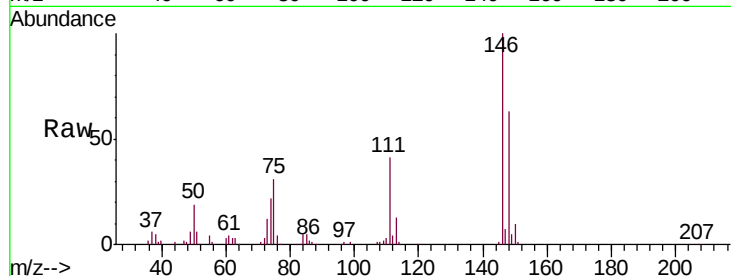
Tgt Ion:146 Resp: 78678

Ion Ratio Lower Upper

146 100

111 40.6 27.7 51.5

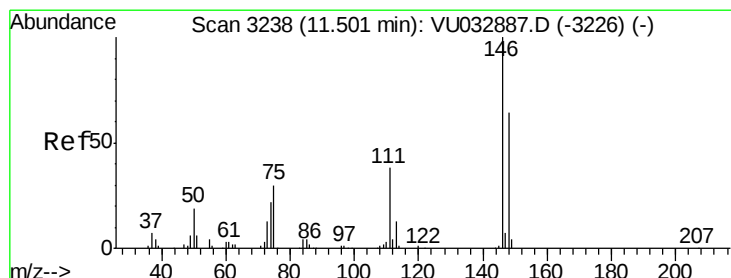
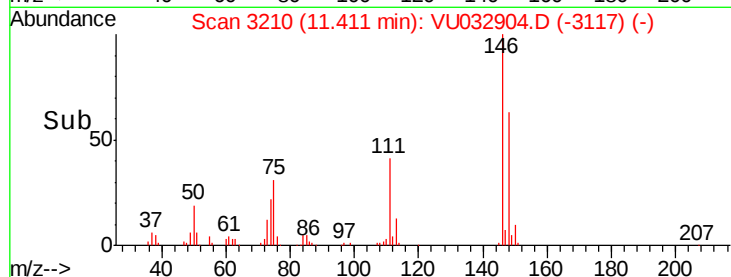
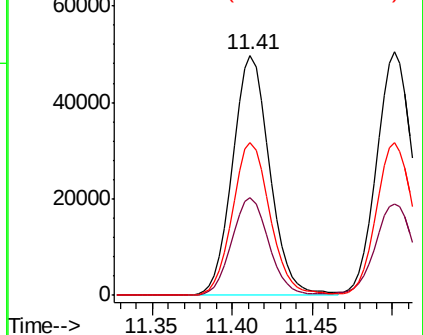
148 63.4 44.7 83.1



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: 4.857 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

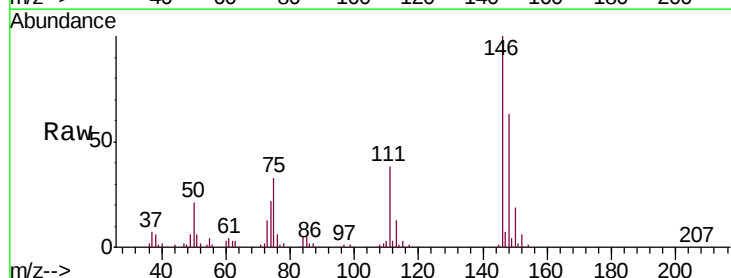
Tgt Ion:146 Resp: 81593

Ion Ratio Lower Upper

146 100

111 37.7 26.2 48.6

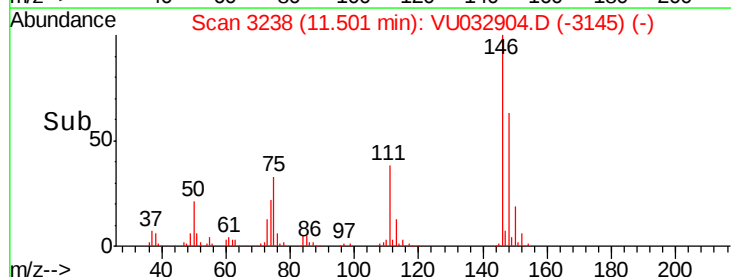
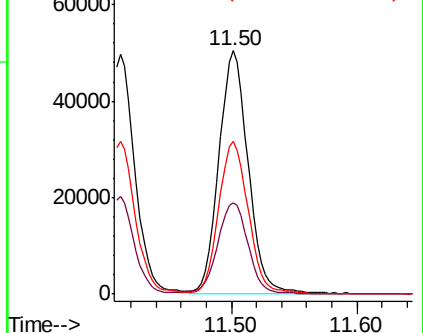
148 62.7 43.9 81.5

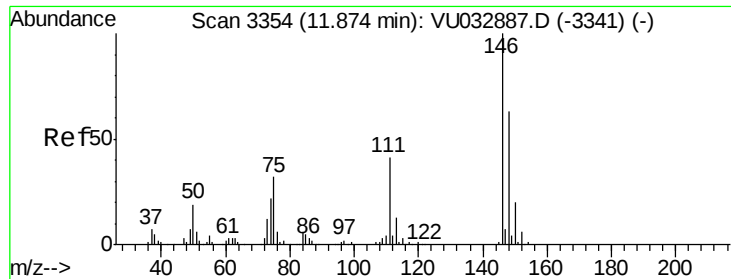


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

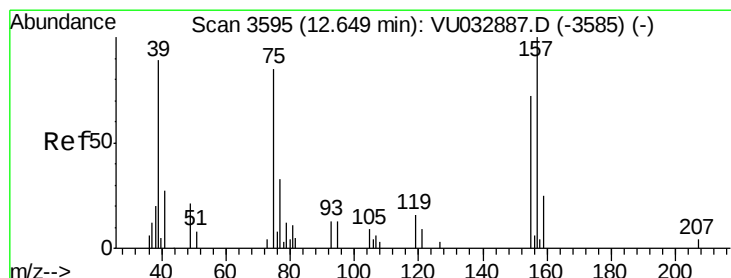
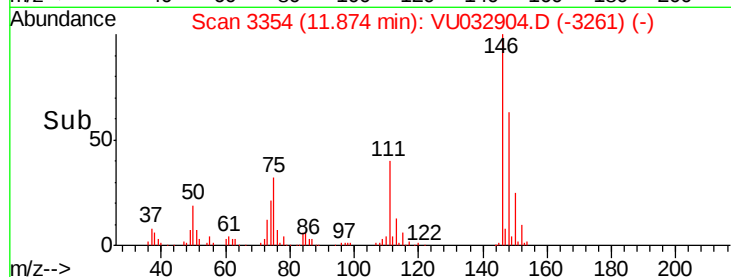
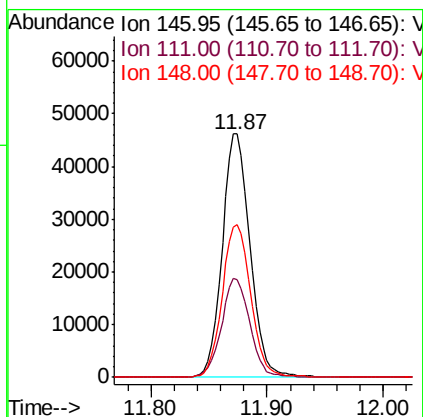
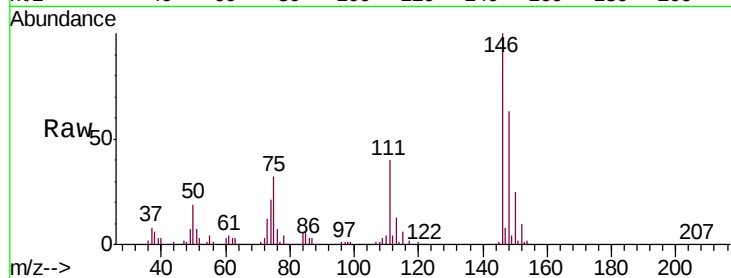




#65
 1,2-Dichlorobenzene
 Concen: 4.828 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

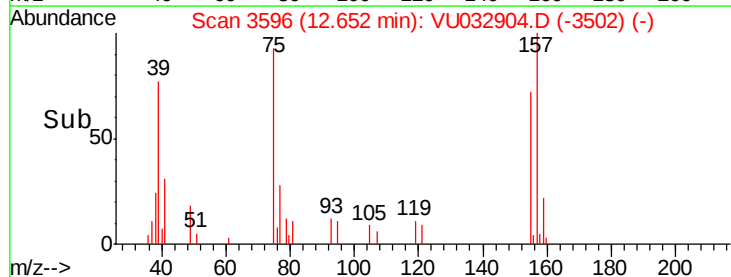
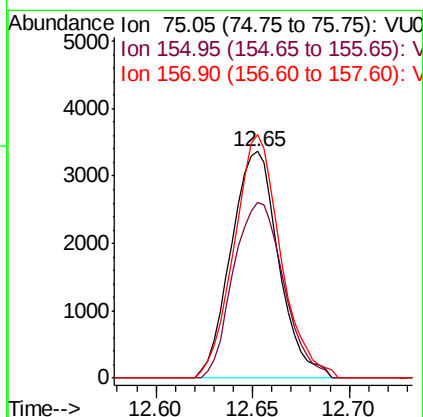
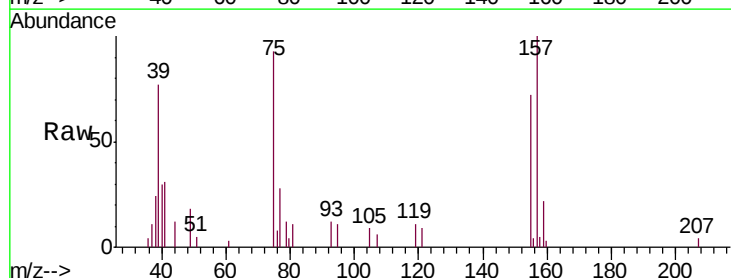
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

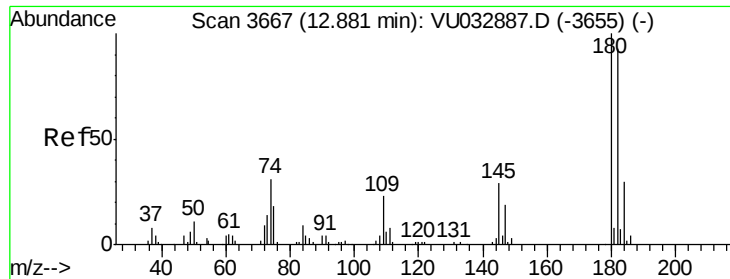
Tgt Ion: 146 Resp: 77077
 Ion Ratio Lower Upper
 146 100
 111 40.1 33.0 49.4
 148 62.8 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.148 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion: 75 Resp: 5771
 Ion Ratio Lower Upper
 75 100
 155 77.6 72.3 108.5
 157 107.5 87.4 131.0

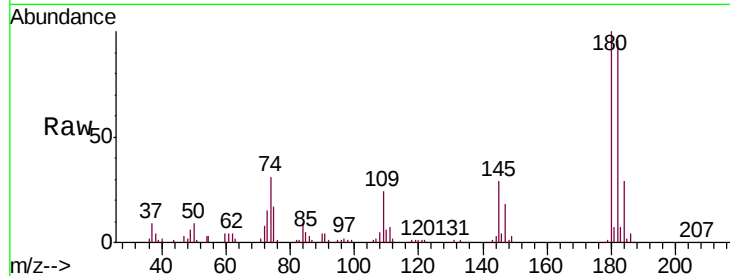




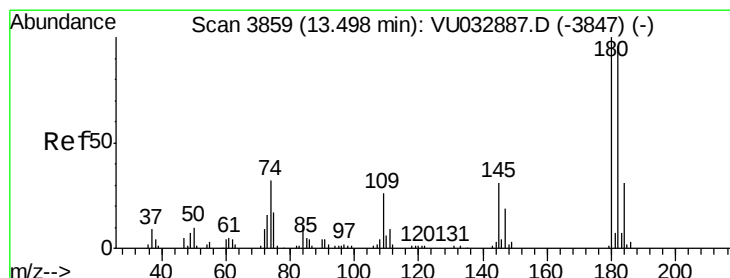
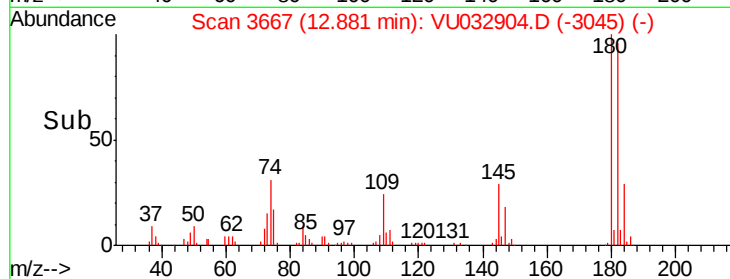
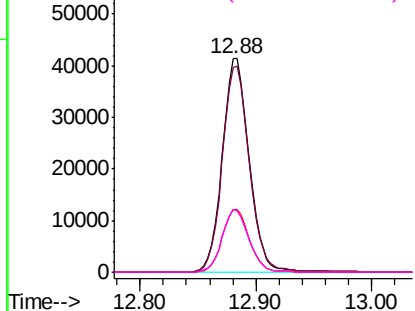
#67
 1,3,5-Trichlorobenzene
 Concen: 5.006 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion:180 Resp: 66286
 Ion Ratio Lower Upper
 180 100
 182 97.1 76.6 115.0
 184 29.6 24.2 36.4
 145 29.3 23.5 35.3

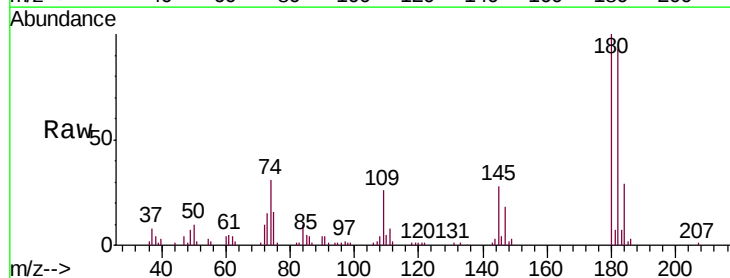


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

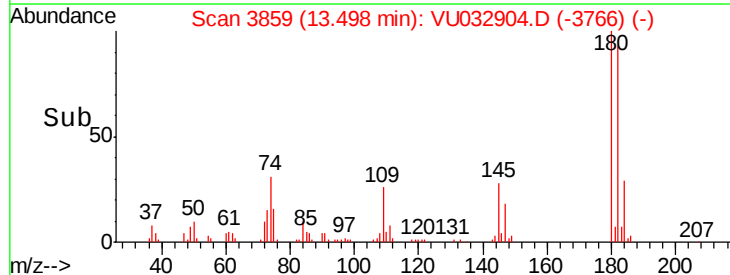
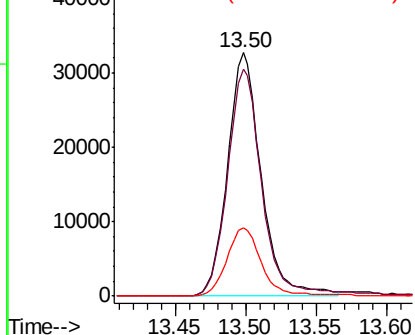


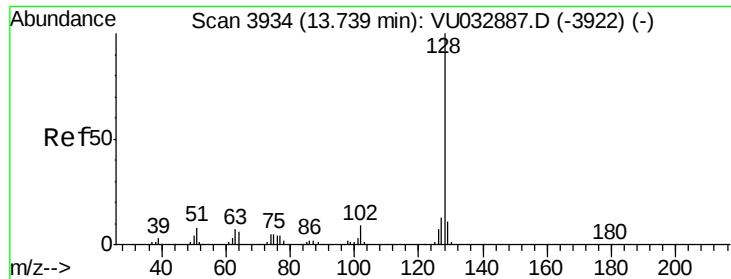
#68
 1,2,4-trichlorobenzene
 Concen: 5.105 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032904.D
 Acq: 20 Jun 2019 16:43

Tgt Ion:180 Resp: 54509
 Ion Ratio Lower Upper
 180 100
 182 96.0 74.8 112.2
 145 28.8 24.3 36.5



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: 4.714 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

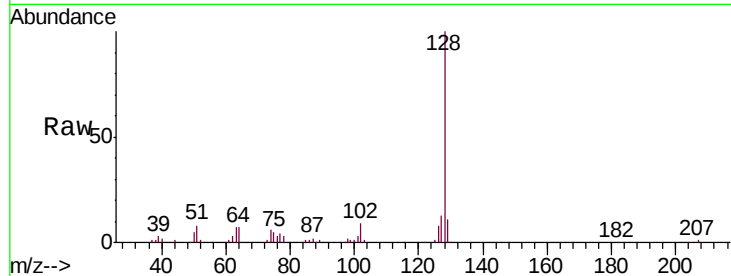
Tgt Ion:128 Resp: 88229

Ion Ratio Lower Upper

128 100

129 10.4 8.1 12.1

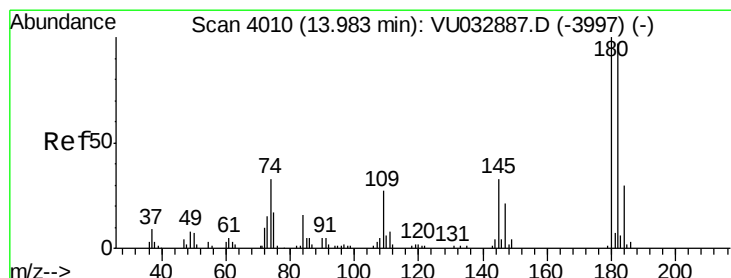
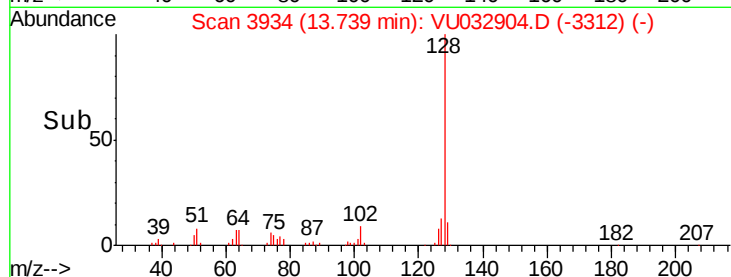
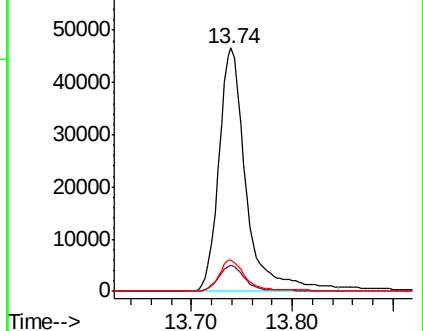
127 12.8 10.4 15.6



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: 4.837 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032904.D

Acq: 20 Jun 2019 16:43

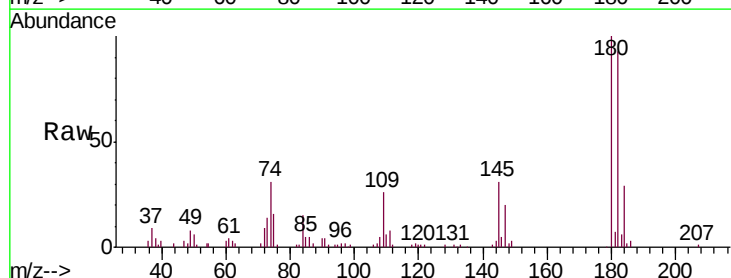
Tgt Ion:180 Resp: 51436

Ion Ratio Lower Upper

180 100

182 95.6 73.8 110.6

145 31.3 25.3 37.9



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

