

Data File : VU030543.D
Acq On : 29 Mar 2019 15:04
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Quant Time: Mar 30 01:13:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Mar 30 00:57:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	206574	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	204990	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	96966	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	76777	4.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.20%
7) Chloroethane-d5	1.68	69	63339	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.60%
11) 1,1-Dichloroethene-d2	2.27	63	157184	4.86	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.20%
20) 2-Butanone-d5	4.21	46	202106	49.69	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.38%
24) Chloroform-d	4.65	84	127382	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.31	65	69037	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	5.34	84	261982	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.33	67	89072	4.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.40%
41) Toluene-d8	7.56	98	238430	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
43) trans-1,3-Dichloropropene-	7.85	79	31525	4.69	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.80%
46) 2-Hexanone-d5	8.31	63	147278	50.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.74%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	62685	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	77783	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	112623	4.894	ug/L 99
3) Chloromethane	1.33	50	129063	4.784	ug/L 98
5) Vinyl chloride	1.40	62	123314	4.989	ug/L 98
6) Bromomethane	1.63	94	53580	4.431	ug/L 97
8) Chloroethane	1.70	64	73070	5.197	ug/L 97
9) Trichlorofluoromethane	1.89	101	143162	5.110	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	79247	5.086	ug/L 98
12) 1,1-Dichloroethene	2.28	96	73718	4.891	ug/L 96
13) Acetone	2.35	43	152338	48.441	ug/L 99
14) Carbon disulfide	2.48	76	257847	4.878	ug/L 100
15) Methyl Acetate	2.63	43	40815	5.024	ug/L 96
16) Methylene chloride	2.70	84	89518	5.094	ug/L 97
17) Methyl tert-butyl Ether	3.01	73	198300	4.914	ug/L 99
18) trans-1,2-Dichloroethene	2.98	96	79594	5.002	ug/L 98
19) 1,1-Dichloroethane	3.44	63	169806	5.045	ug/L 99
21) 2-Butanone	4.30	43	248556	49.870	ug/L 99
22) cis-1,2-Dichloroethene	4.22	96	83135	4.899	ug/L 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	32857	4.847	ug/L	93
25) Chloroform	4.67	83	160432	5.228	ug/L	96
27) 1,2-Dichloroethane	5.41	62	96887	4.866	ug/L #	95
29) 1,1,1-Trichloroethane	4.91	97	125608	4.810	ug/L	99
30) Cyclohexane	4.99	56	146680	4.653	ug/L	100
31) Carbon tetrachloride	5.13	117	104899	4.785	ug/L	96
33) Benzene	5.39	78	334397	4.822	ug/L	100
34) Trichloroethene	6.18	95	82296	4.741	ug/L	98
35) Methylcyclohexane	6.41	83	131479	4.746	ug/L	99
37) 1,2-Dichloropropane	6.43	63	91693	4.805	ug/L	99
38) Bromodichloromethane	6.76	83	108268	4.859	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	121557	4.763	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	577616	48.521	ug/L	100
42) Toluene	7.63	91	347780	5.001	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	96753	4.898	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	57216	5.028	ug/L	96
47) Tetrachloroethene	8.22	164	59654	4.899	ug/L	97
48) 2-Hexanone	8.36	43	420954	51.034	ug/L	98
49) Dibromochloromethane	8.47	129	65824	4.837	ug/L	94
50) 1,2-Dibromoethane	8.59	107	53725	5.065	ug/L	96
51) Chlorobenzene	9.12	112	206316	4.811	ug/L	99
52) Ethylbenzene	9.25	91	363972	4.907	ug/L	99
53) m,p-Xylene	9.37	106	130787	5.048	ug/L	93
54) o-Xylene	9.78	106	128973	5.076	ug/L	93
55) Styrene	9.79	104	220571	5.146	ug/L	98
56) Isopropylbenzene	10.16	105	336484	4.958	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	75429	4.986	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	49642	4.655	ug/L	98
61) Bromoform	9.95	173	34813	4.741	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	145541	4.757	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	149493	4.661	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	142226	4.777	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	11072	4.806	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	111248	4.873	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	87604	4.969	ug/L	99
69) Naphthalene	13.74	128	135144	4.773	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	82353	5.012	ug/L	99

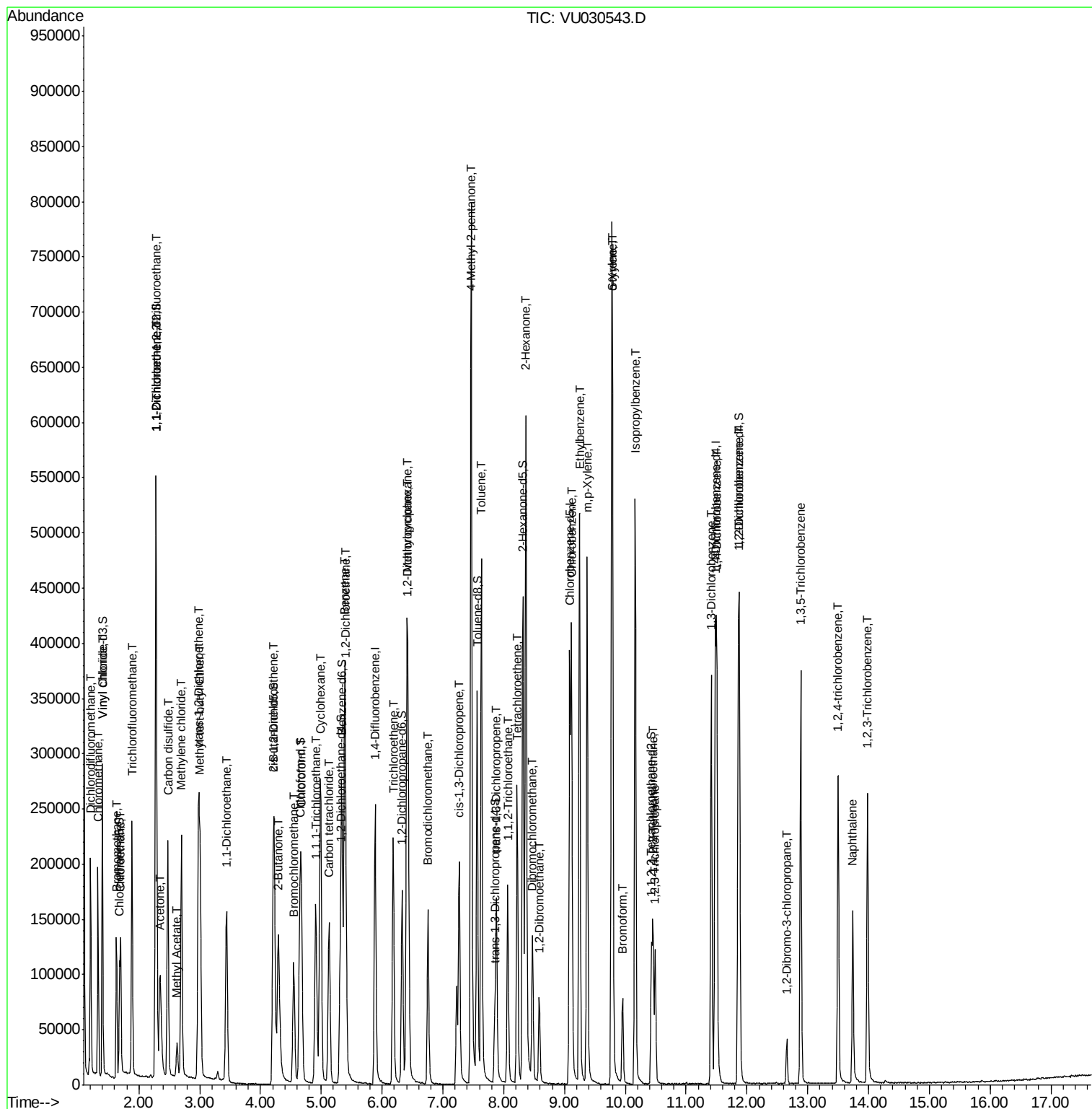
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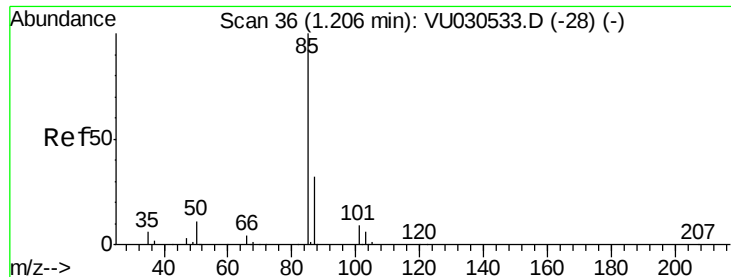
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#2

Dichlorodifluoromethane

Concen: 4.894 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

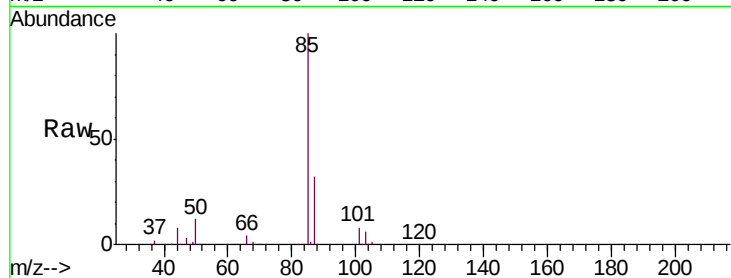
VSTD00507

Tgt Ion: 85 Resp: 112623

Ion Ratio Lower Upper

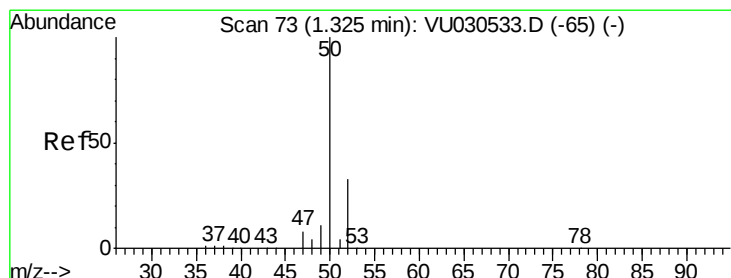
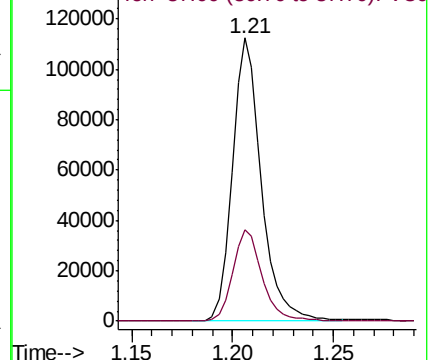
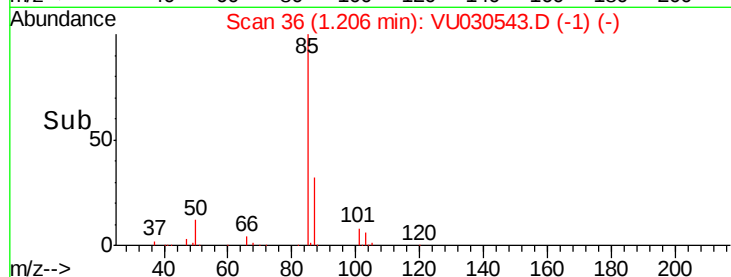
85 100

87 32.9 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU030543.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030543.D (-1) (-)



#3

Chloromethane

Concen: 4.784 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU030543.D

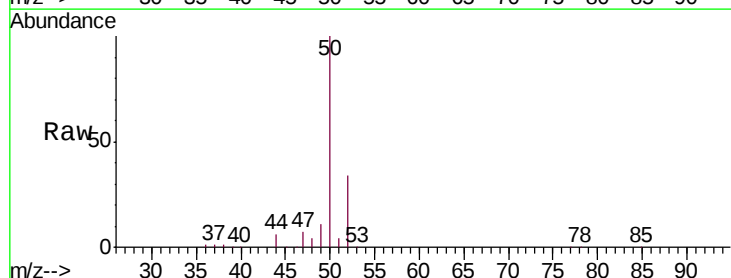
Acq: 29 Mar 2019 15:04

Tgt Ion: 50 Resp: 129063

Ion Ratio Lower Upper

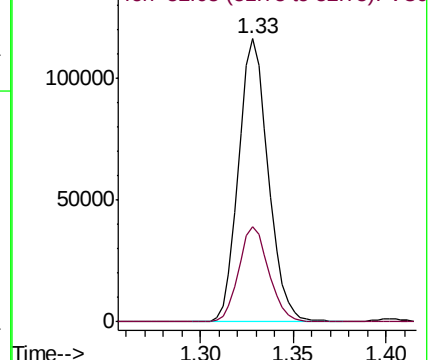
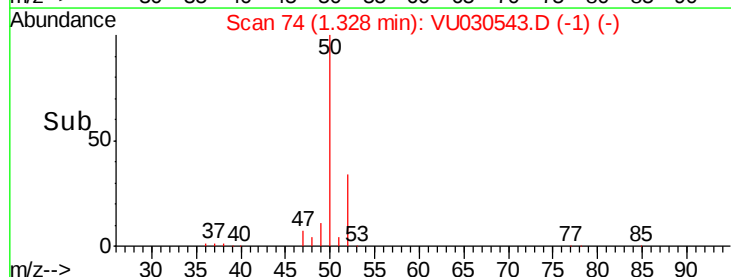
50 100

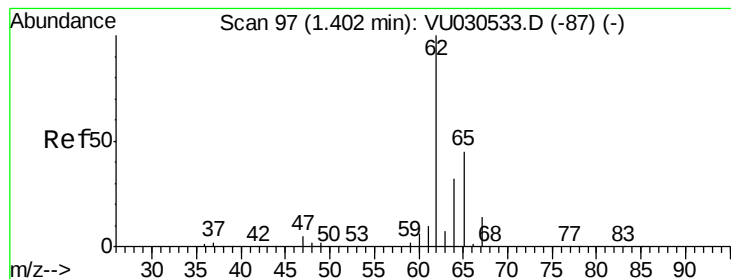
52 33.8 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU030543.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU030543.D (-1) (-)





#5

Vinyl chloride

Concen: 4.989 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

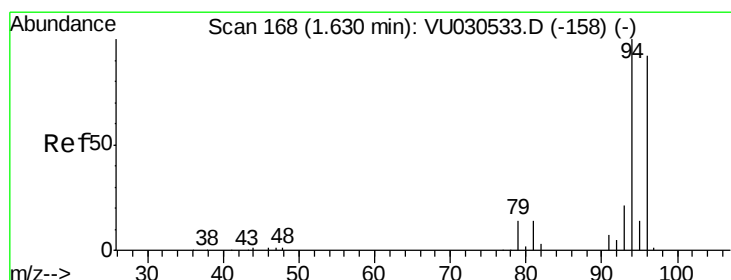
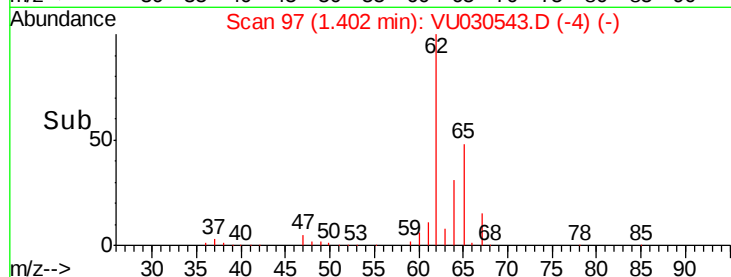
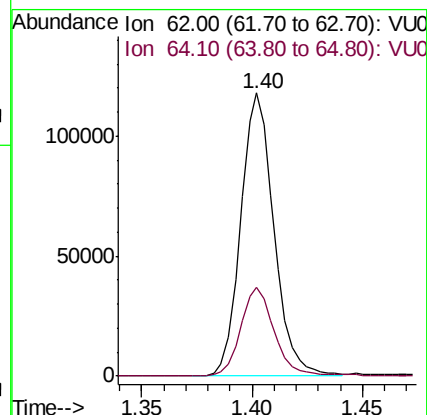
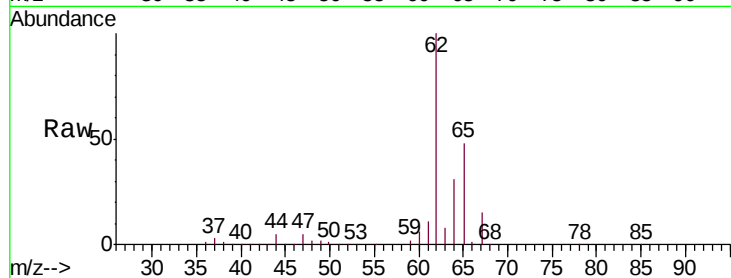
VSTD00507

Tgt Ion: 62 Resp: 123314

Ion Ratio Lower Upper

62 100

64 31.2 22.5 41.9



#6

Bromomethane

Concen: 4.431 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU030543.D

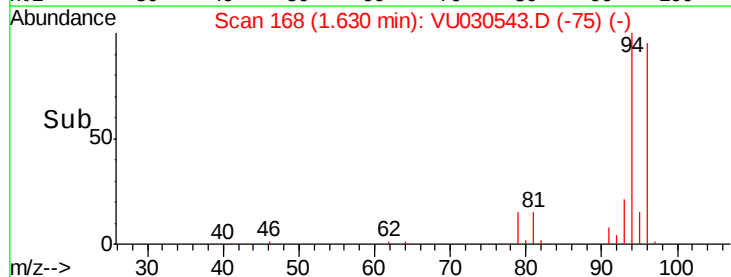
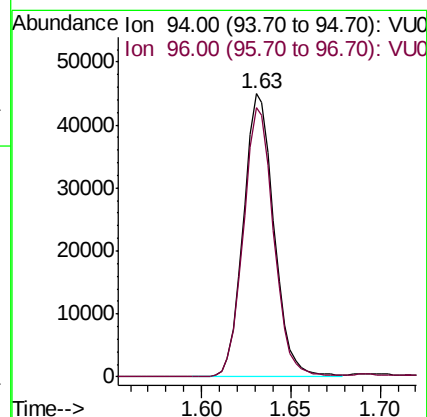
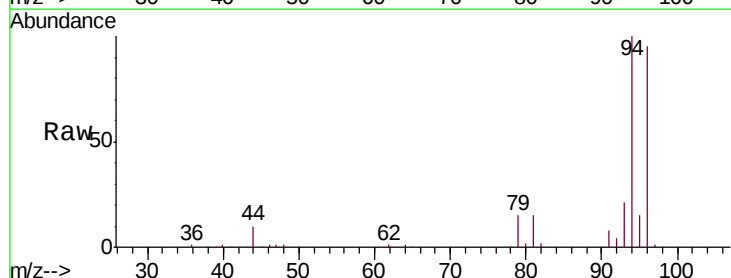
Acq: 29 Mar 2019 15:04

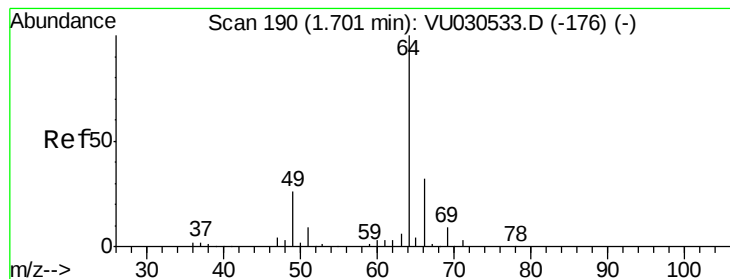
Tgt Ion: 94 Resp: 53580

Ion Ratio Lower Upper

94 100

96 95.3 64.6 120.0





#8

Chloroethane

Concen: 5.197 ug/L

RT: 1.70 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

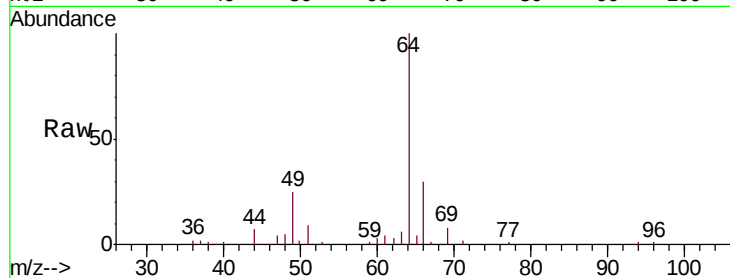
VSTD00507

Tgt Ion: 64 Resp: 73070

Ion Ratio Lower Upper

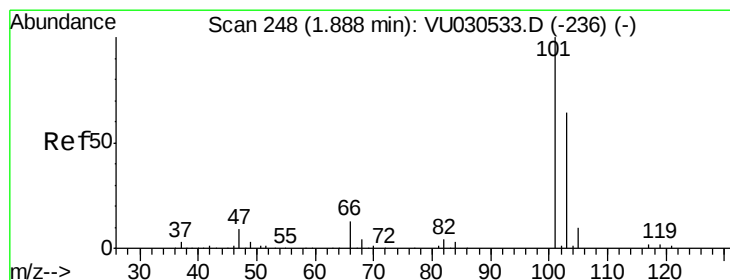
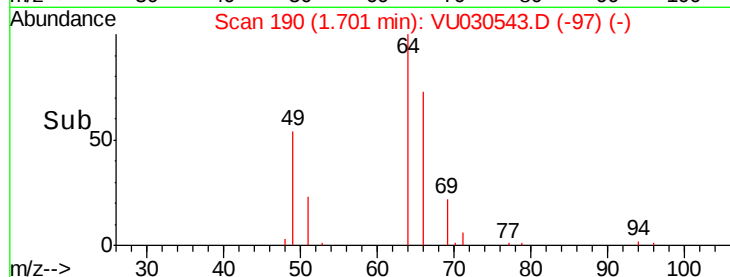
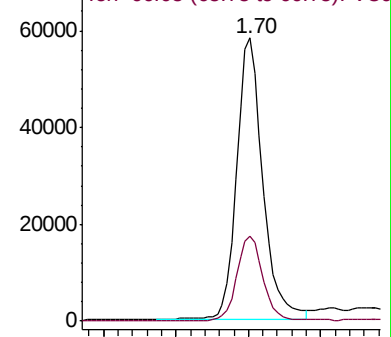
64 100

66 30.1 22.1 41.1



Abundance Ion 64.10 (63.80 to 64.80): VU030543.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU030543.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 5.110 ug/L

RT: 1.89 min Scan# 248

Delta R.T. -0.00 min

Lab File: VU030543.D

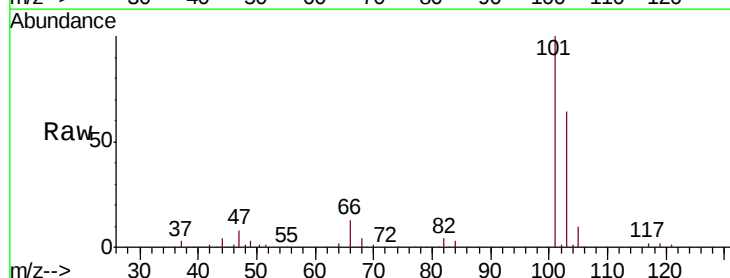
Acq: 29 Mar 2019 15:04

Tgt Ion: 101 Resp: 143162

Ion Ratio Lower Upper

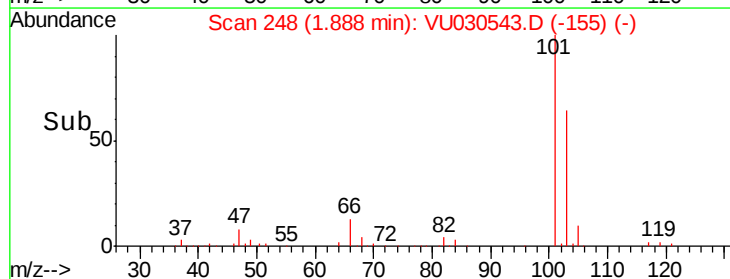
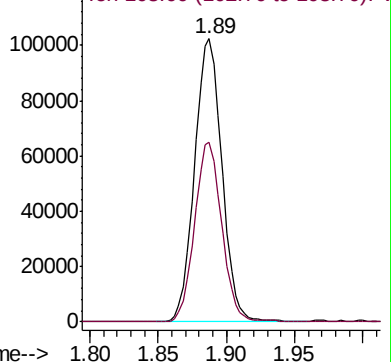
101 100

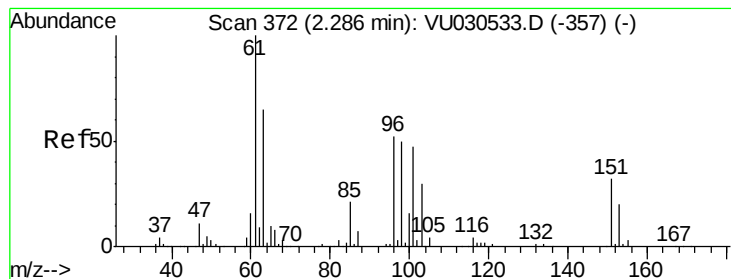
103 62.5 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VU030543.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU030543.D (-236) (-)





#10

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

Concen: 5.086 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

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ClientSampleId :

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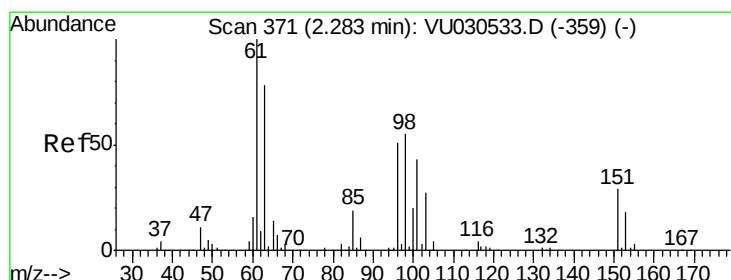
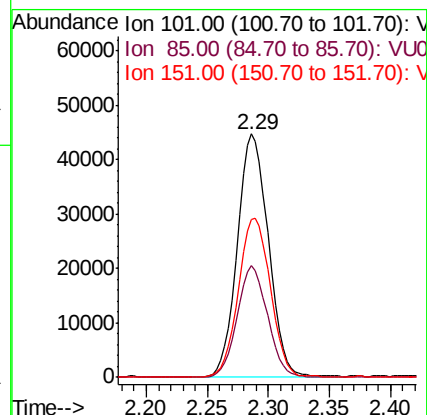
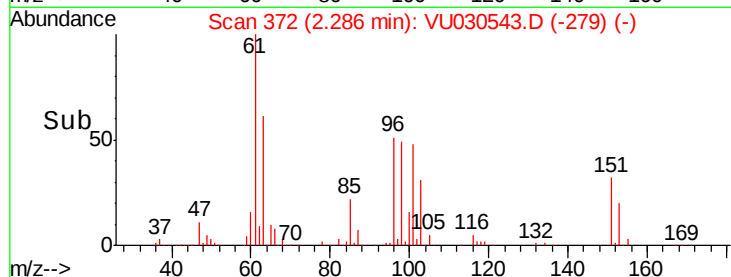
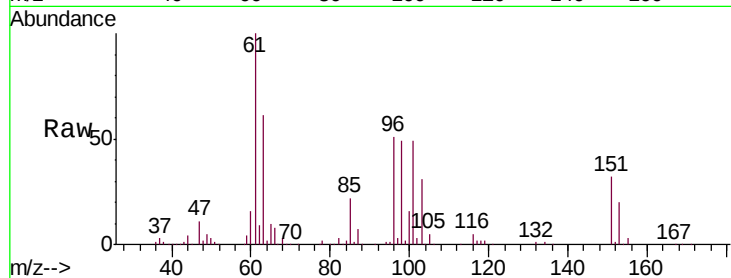
Tgt Ion: 101 Resp: 79247

Ion Ratio Lower Upper

101 100

85 44.6 35.3 52.9

151 67.4 55.2 82.8



#12

1,1-Dichloroethene

Concen: 4.891 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

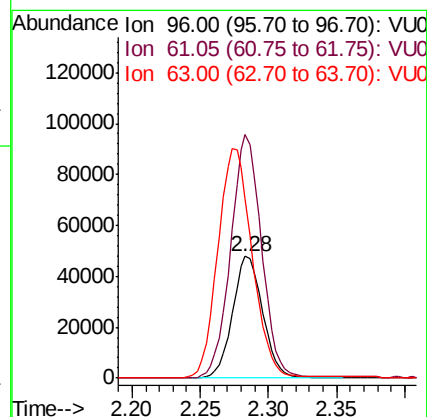
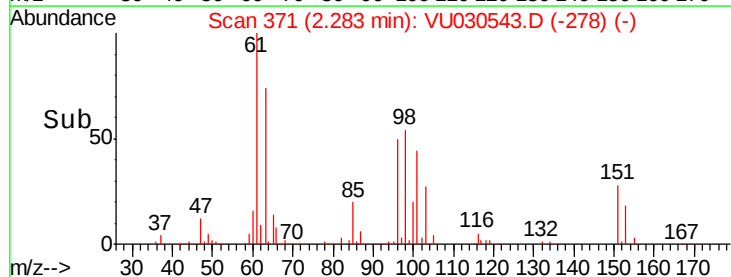
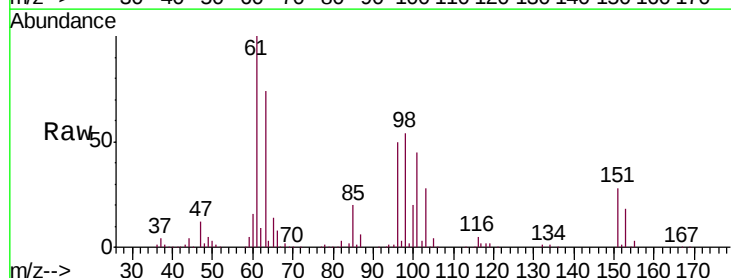
Tgt Ion: 96 Resp: 73718

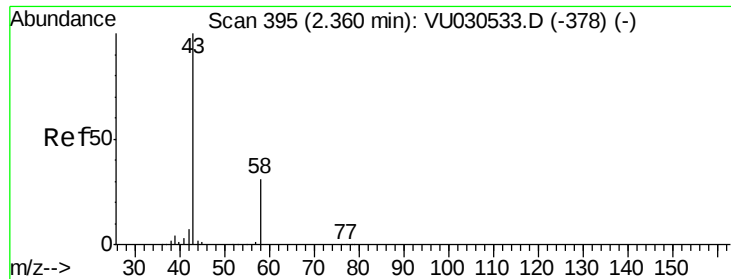
Ion Ratio Lower Upper

96 100

61 199.9 136.9 254.3

63 147.5 107.7 200.1





#13

Acetone

Concen: 48.441 ug/L

RT: 2.35 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

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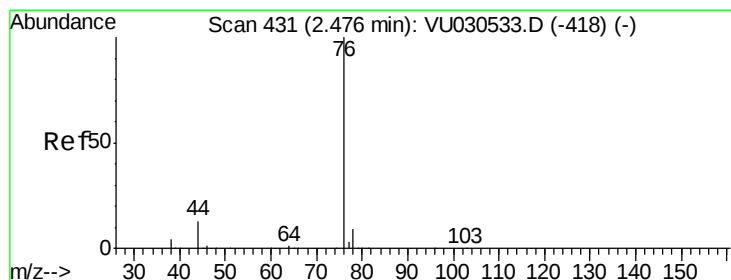
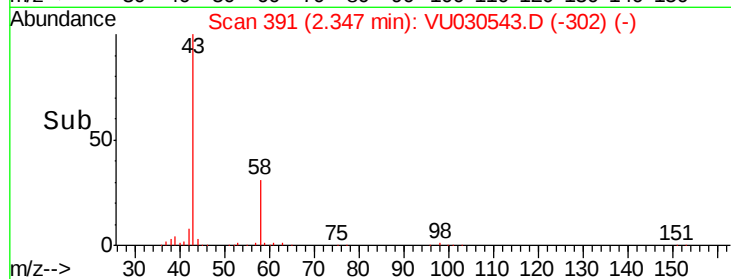
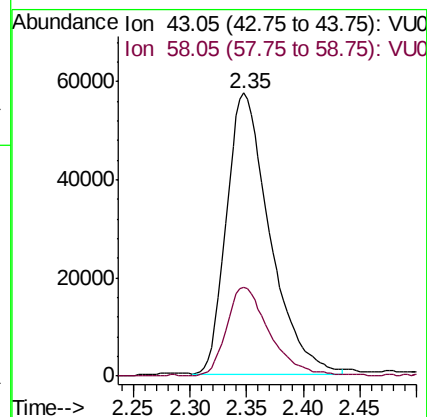
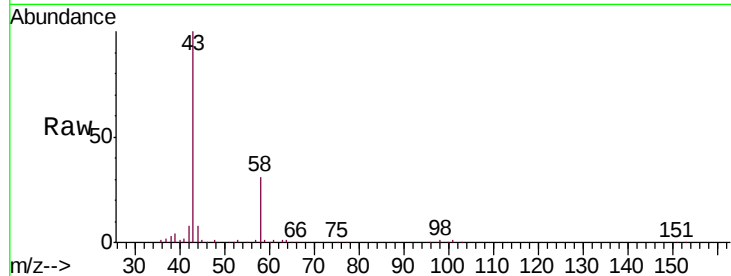
VSTD00507

Tgt Ion: 43 Resp: 152338

Ion Ratio Lower Upper

43 100

58 32.0 0.0 62.8



#14

Carbon disulfide

Concen: 4.878 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU030543.D

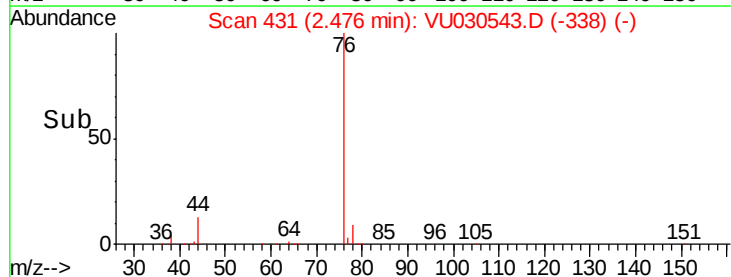
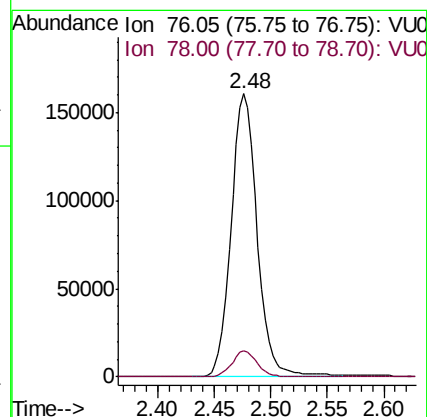
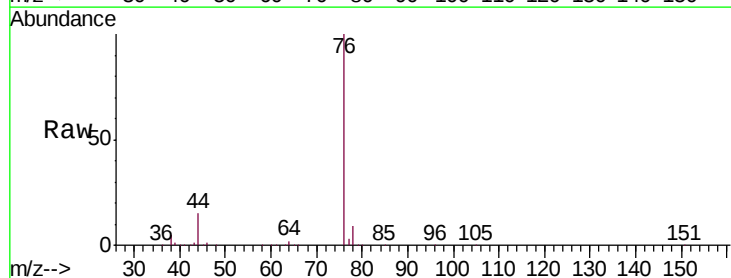
Acq: 29 Mar 2019 15:04

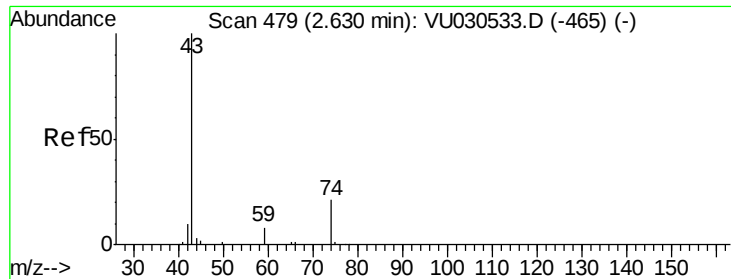
Tgt Ion: 76 Resp: 257847

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3





#15

Methyl Acetate

Concen: 5.024 ug/L

RT: 2.63 min Scan# 478

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

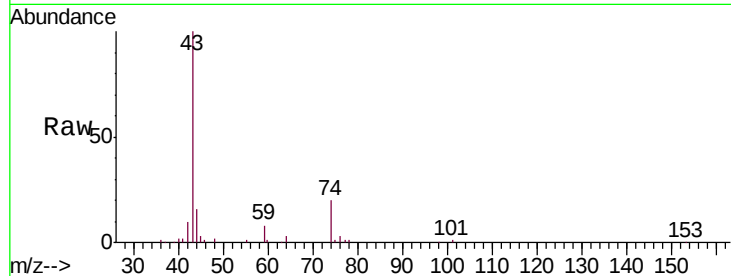
VSTD00507

Tgt Ion: 43 Resp: 40815

Ion Ratio Lower Upper

43 100

74 19.7 17.1 25.7



Abundance Ion 43.05 (42.75 to 43.75): VU030543.D (-465) (-)

Ion 74.05 (73.75 to 74.75): VU030543.D (-465) (-)

25000

20000

15000

10000

5000

0

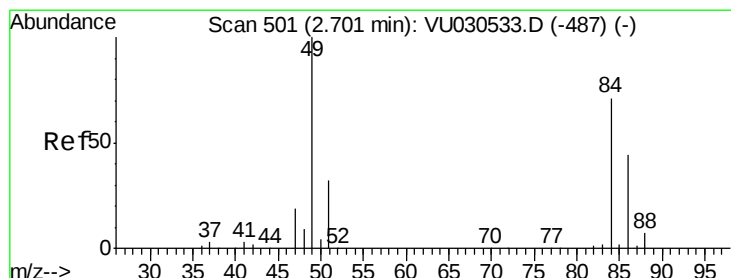
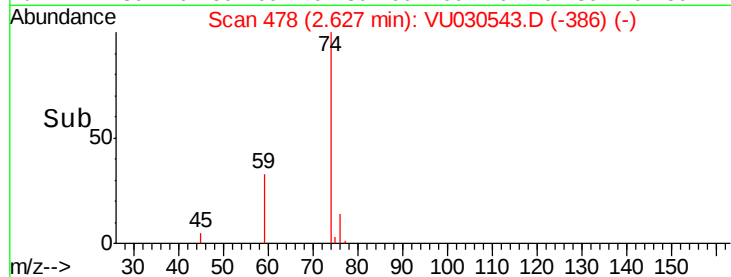
Time-->

2.55

2.60

2.65

2.70



#16

Methylene chloride

Concen: 5.094 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

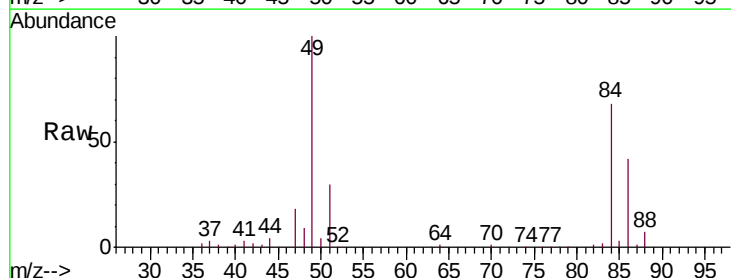
Tgt Ion: 84 Resp: 89518

Ion Ratio Lower Upper

84 100

86 61.4 43.4 80.6

49 146.2 98.5 182.9



Abundance Ion 84.05 (83.75 to 84.75): VU030543.D (-487) (-)

Ion 86.00 (85.70 to 86.70): VU030543.D (-487) (-)

Ion 49.10 (48.80 to 49.80): VU030543.D (-487) (-)

100000

80000

60000

40000

20000

0

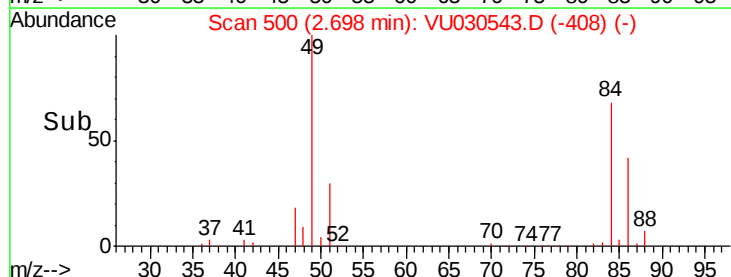
Time-->

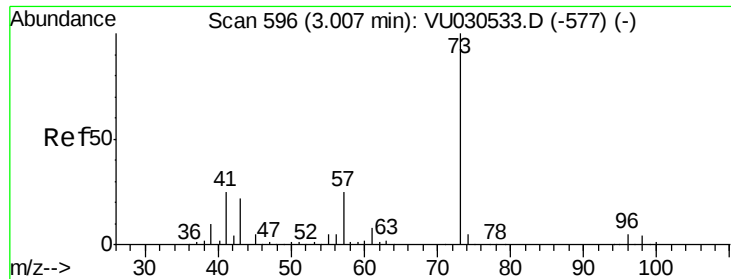
2.65

2.70

2.75

2.80

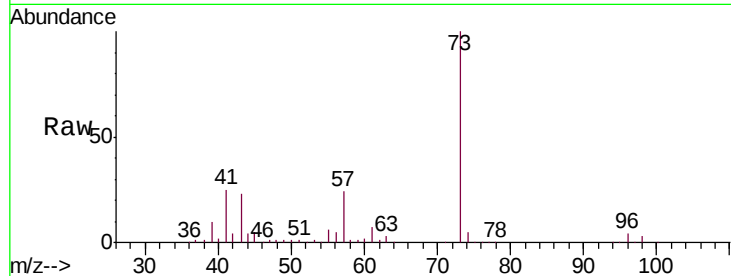




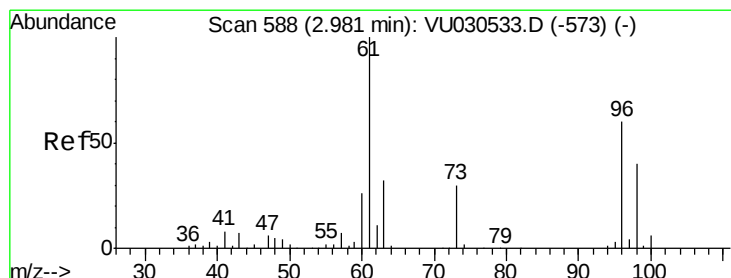
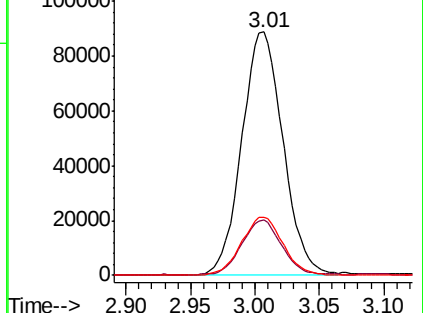
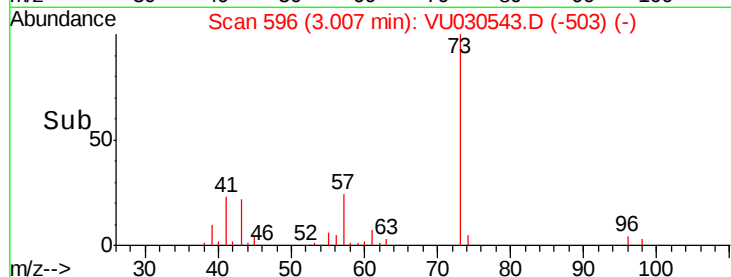
#17
Methyl tert-butyl Ether
Concen: 4.914 ug/L
RT: 3.01 min Scan# 596
Delta R.T. -0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tgt Ion: 73 Resp: 198300
Ion Ratio Lower Upper
73 100
43 21.8 17.0 25.4
57 24.1 19.4 29.2

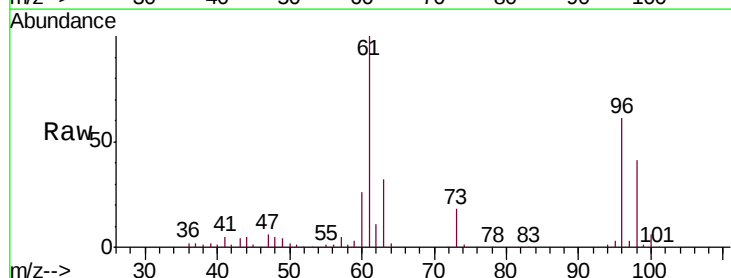


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

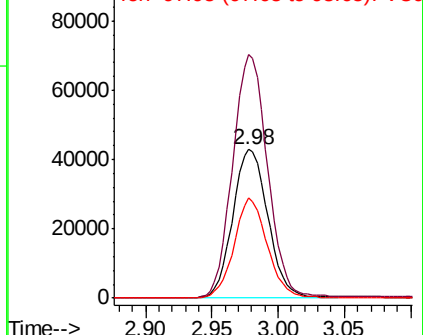
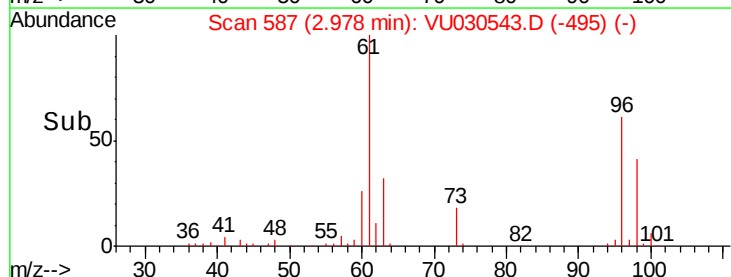


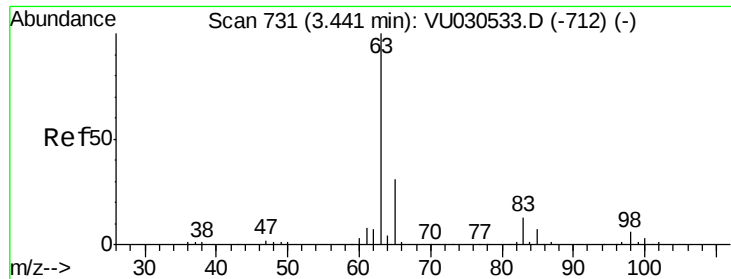
#18
trans-1,2-Dichloroethene
Concen: 5.002 ug/L
RT: 2.98 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

Tgt Ion: 96 Resp: 79594
Ion Ratio Lower Upper
96 100
61 164.1 116.8 216.8
98 67.3 46.8 87.0



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

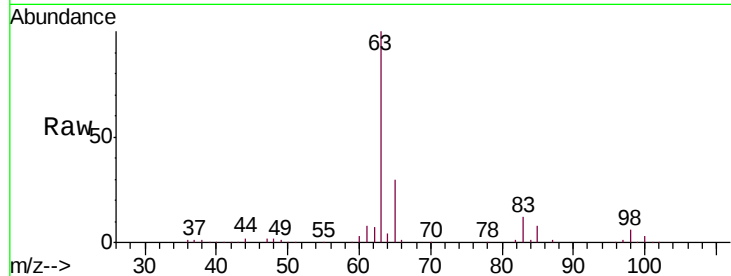




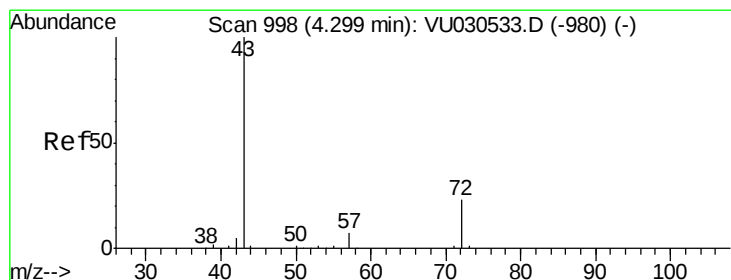
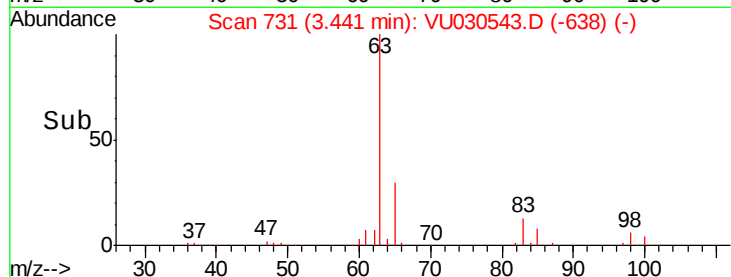
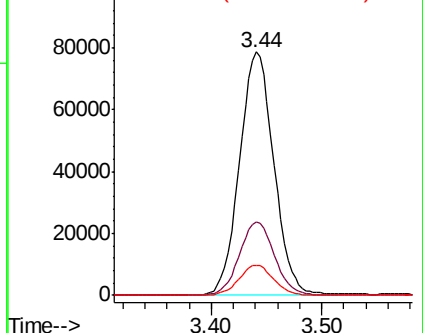
#19
 1,1-Dichloroethane
 Concen: 5.045 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU030543.D
 Acq: 29 Mar 2019 15:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion: 63 Resp: 169806
 Ion Ratio Lower Upper
 63 100
 65 30.0 21.6 40.0
 83 12.5 9.1 16.9

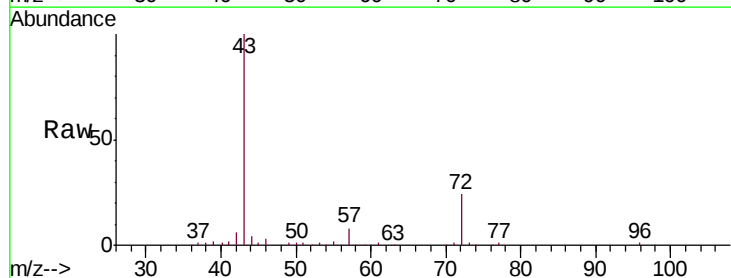


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

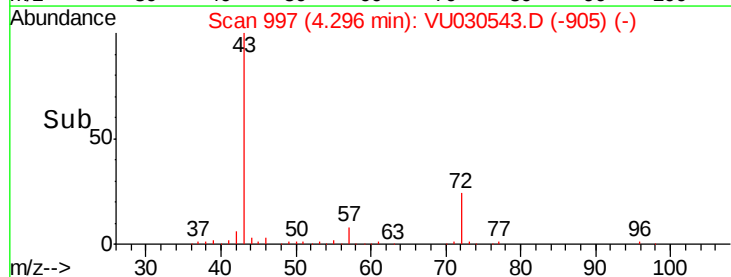
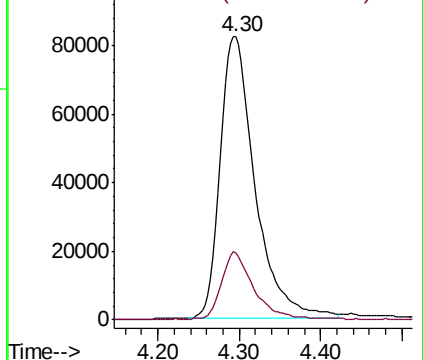


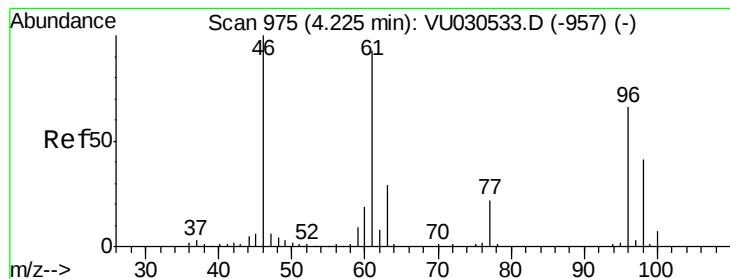
#21
 2-Butanone
 Concen: 49.870 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VU030543.D
 Acq: 29 Mar 2019 15:04

Tgt Ion: 43 Resp: 248556
 Ion Ratio Lower Upper
 43 100
 72 21.6 11.2 33.5



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



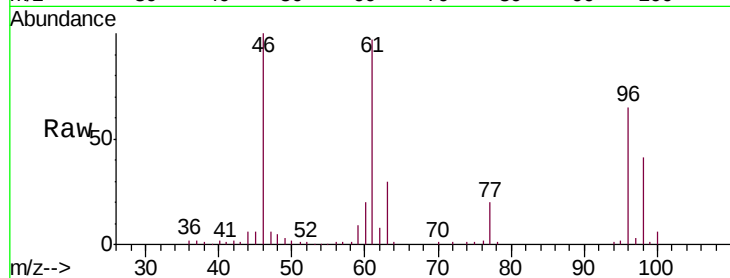


#22

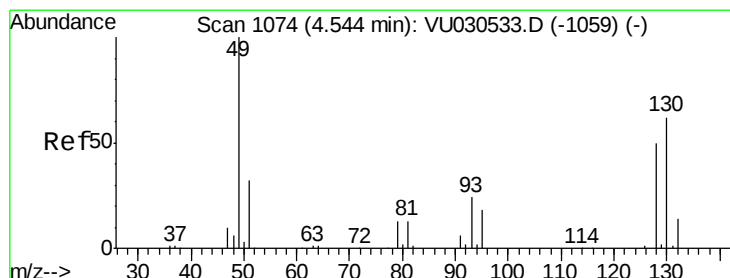
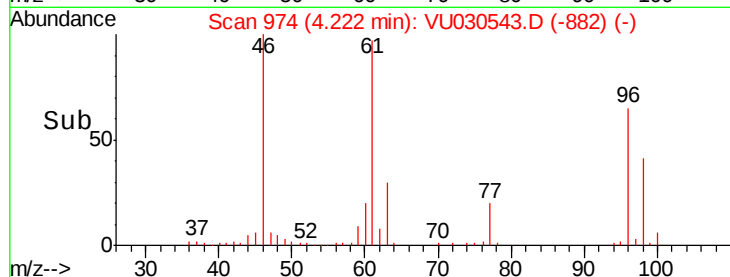
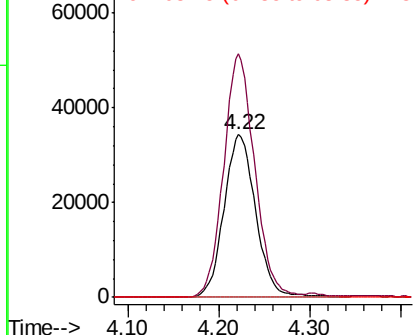
cis-1,2-Dichloroethene
Concen: 4.899 ug/L
RT: 4.22 min Scan# 974
Delta R.T. -0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tgt Ion: 96 Resp: 83135
Ion Ratio Lower Upper
96 100
61 149.5 98.9 183.7
68 0.0 0.0 0.0



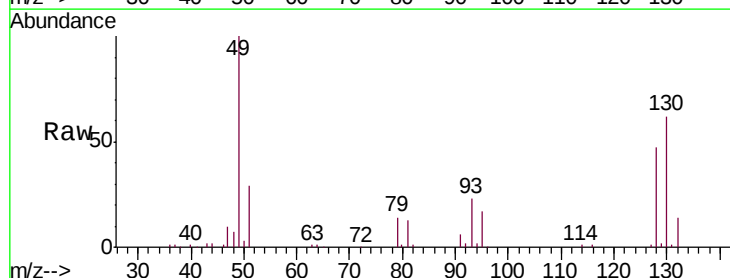
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



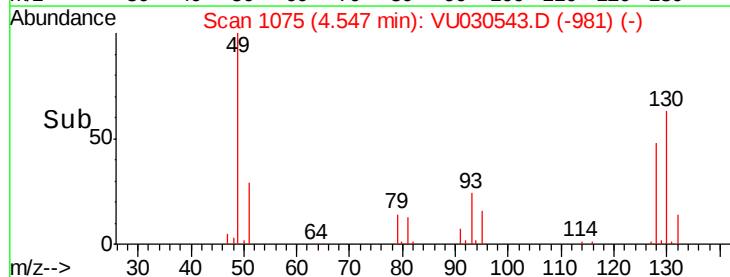
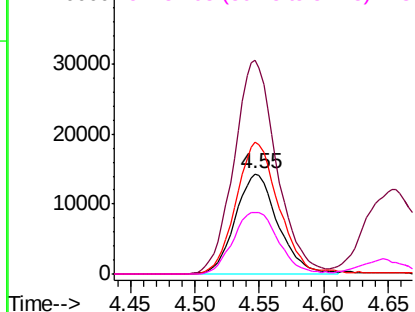
#23

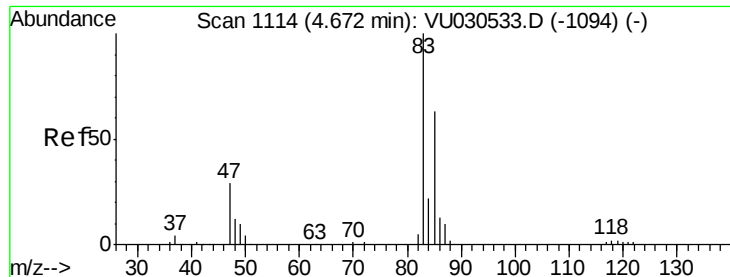
Bromochloromethane
Concen: 4.847 ug/L
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

Tgt Ion: 128 Resp: 32857
Ion Ratio Lower Upper
128 100
49 212.7 140.6 261.2
130 131.2 87.3 162.1
51 61.2 51.8 77.6



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

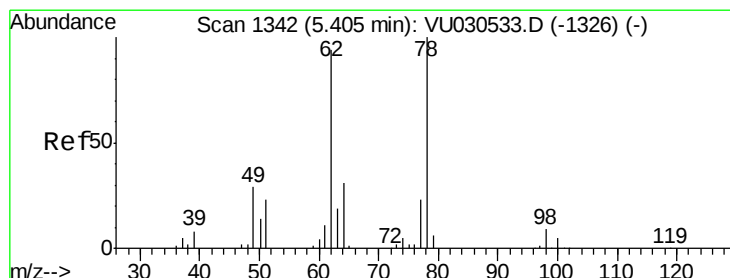
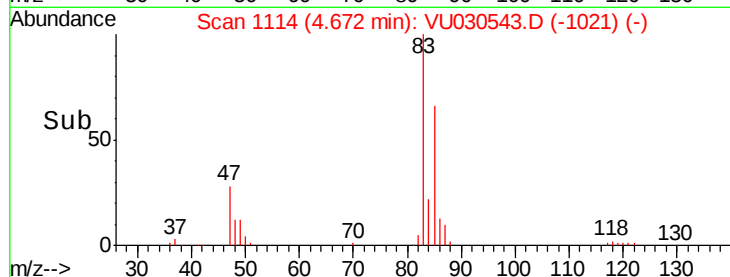
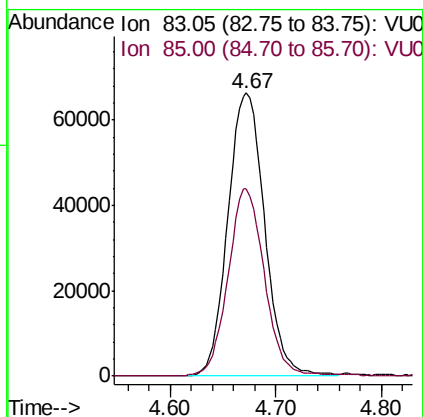
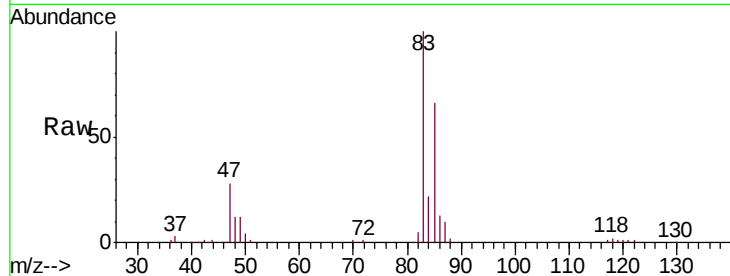




#25
Chloroform
Concen: 5.228 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

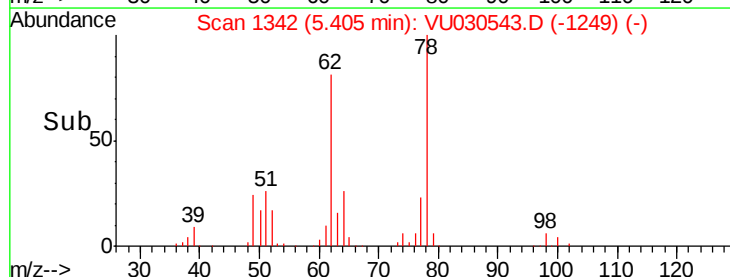
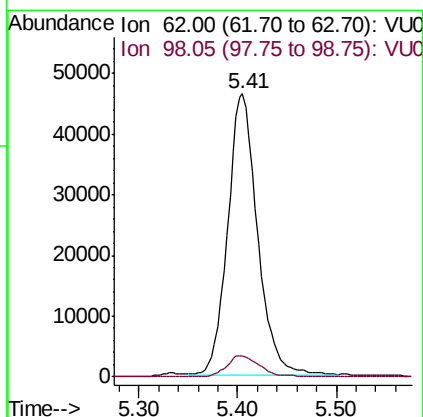
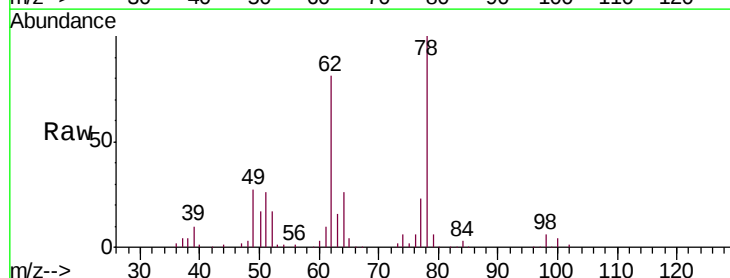
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

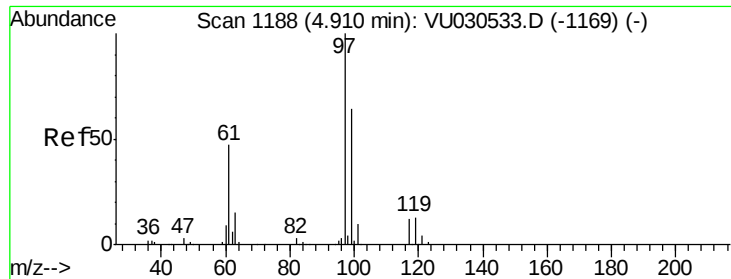
Tgt Ion: 83 Resp: 160432
Ion Ratio Lower Upper
83 100
85 66.2 44.2 82.2



#27
1,2-Dichloroethane
Concen: 4.866 ug/L
RT: 5.41 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

Tgt Ion: 62 Resp: 96887
Ion Ratio Lower Upper
62 100
98 7.3 7.4 11.2#

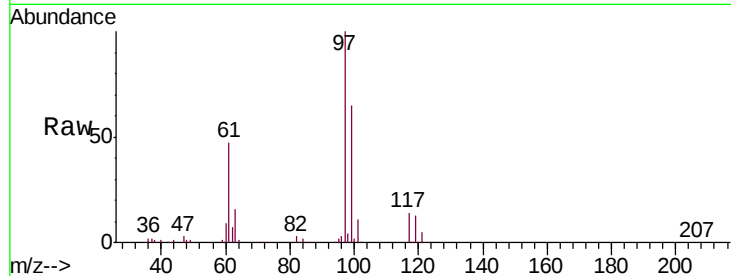




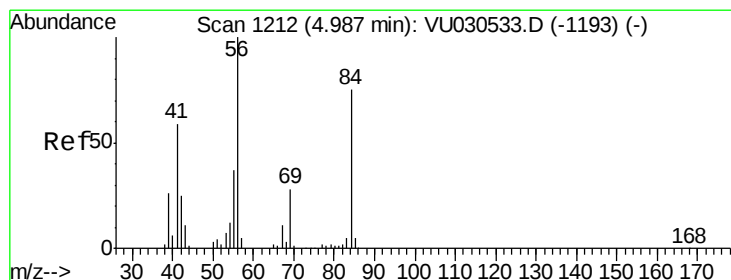
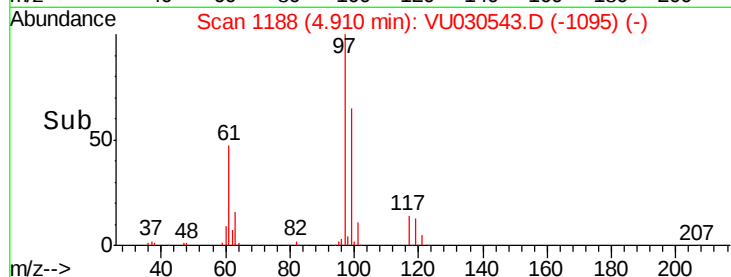
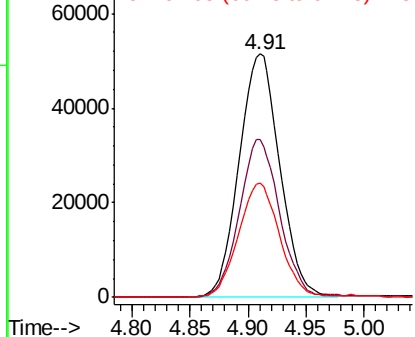
#29
 1,1,1-Trichloroethane
 Concen: 4.810 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU030543.D
 Acq: 29 Mar 2019 15:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion: 97 Resp: 125608
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.8 77.6
 61 47.5 38.1 57.1

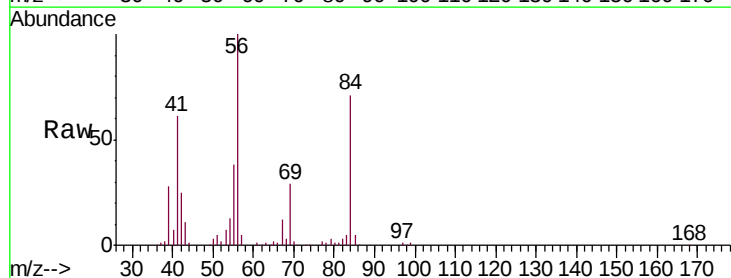


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

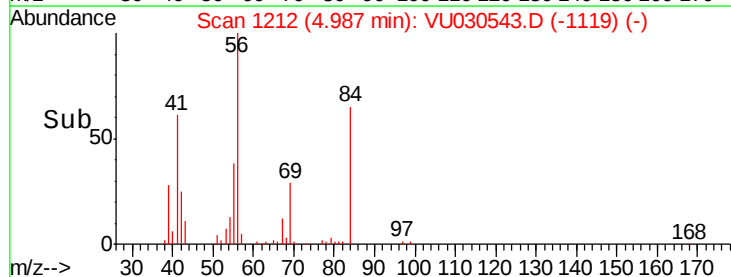
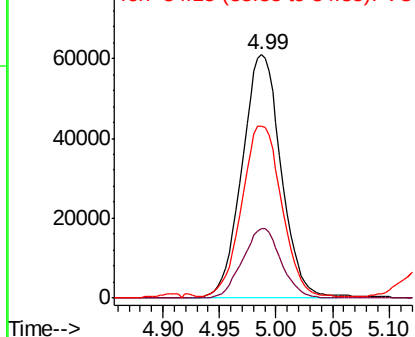


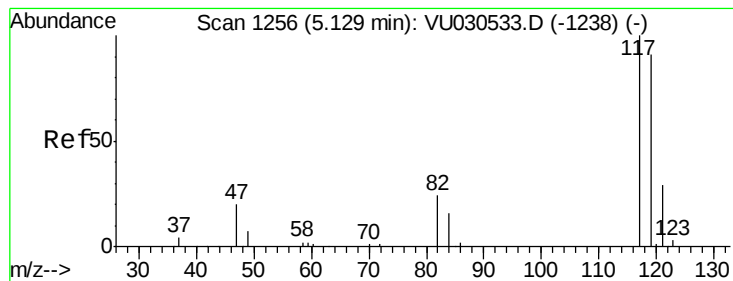
#30
 Cyclohexane
 Concen: 4.653 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. -0.00 min
 Lab File: VU030543.D
 Acq: 29 Mar 2019 15:04

Tgt Ion: 56 Resp: 146680
 Ion Ratio Lower Upper
 56 100
 69 28.2 22.3 33.5
 84 72.9 58.3 87.5



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.785 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

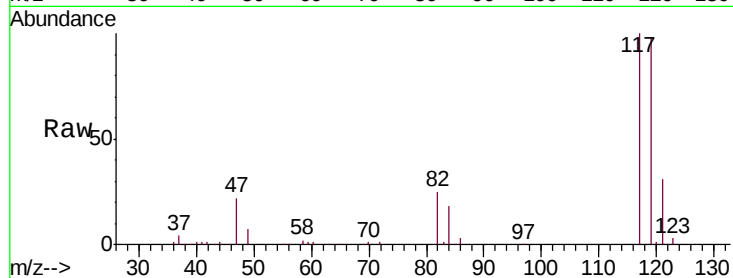
VSTD00507

Tgt Ion:117 Resp: 104899

Ion Ratio Lower Upper

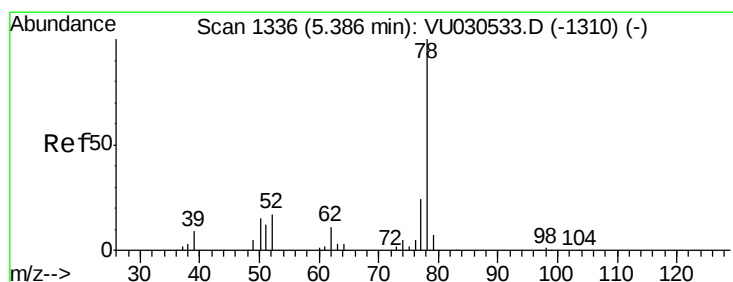
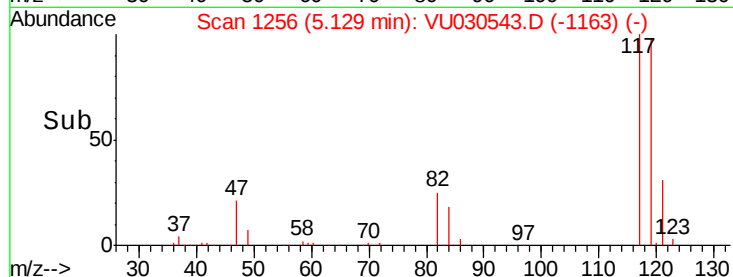
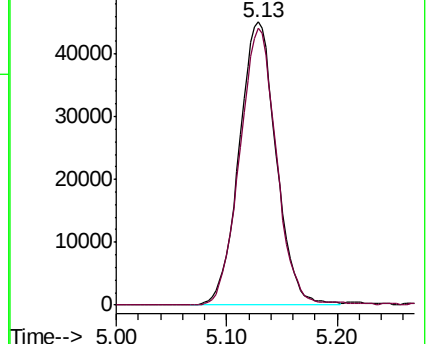
117 100

119 96.2 73.7 110.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.822 ug/L

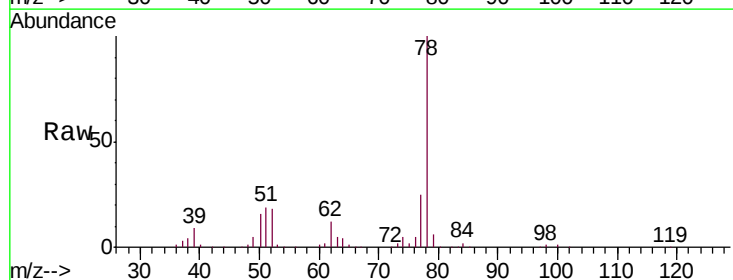
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

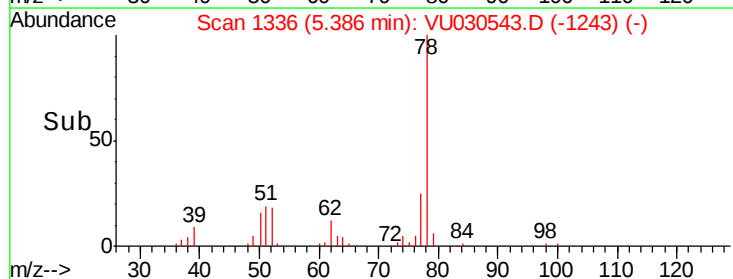
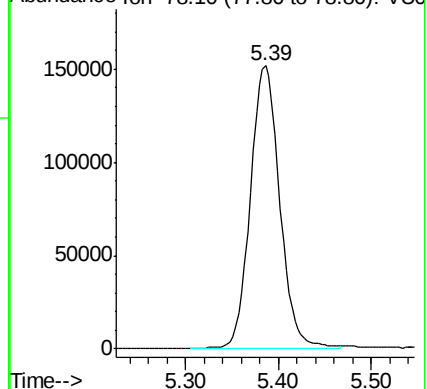
Lab File: VU030543.D

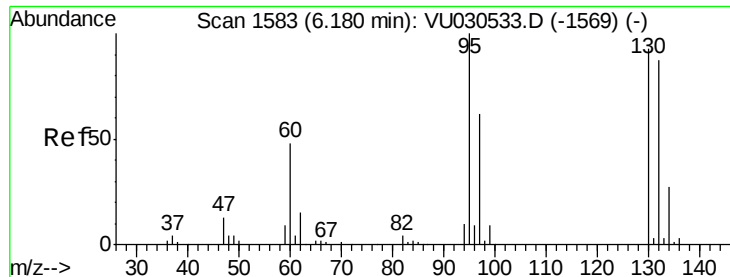
Acq: 29 Mar 2019 15:04

Tgt Ion: 78 Resp: 334397



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.741 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

Tgt Ion: 95 Resp: 82296

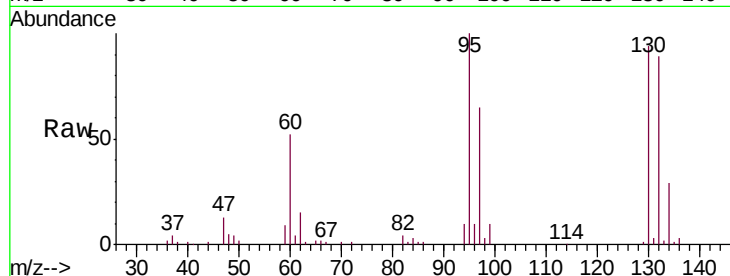
Ion Ratio Lower Upper

95 100

97 64.5 43.5 80.9

132 89.1 60.7 112.7

130 94.4 65.1 120.9

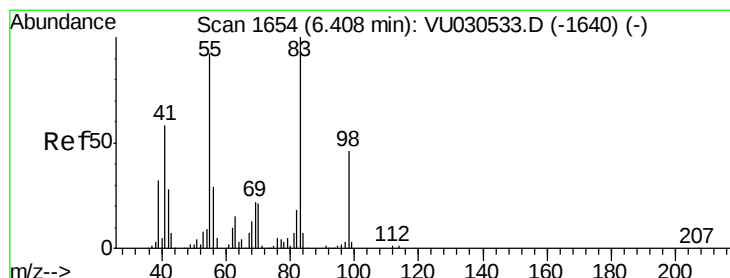
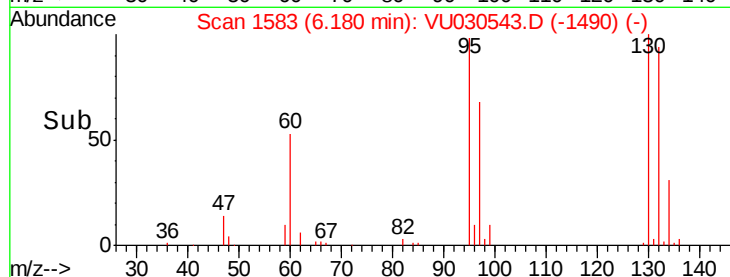
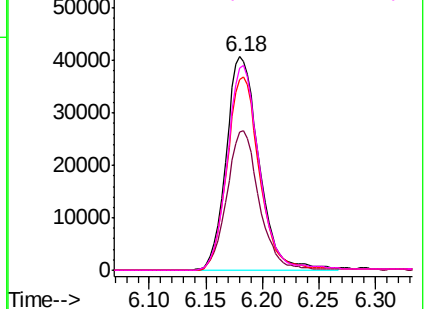


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.746 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

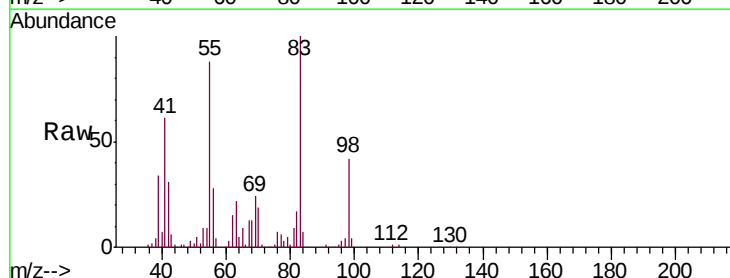
Tgt Ion: 83 Resp: 131479

Ion Ratio Lower Upper

83 100

55 92.2 72.6 108.8

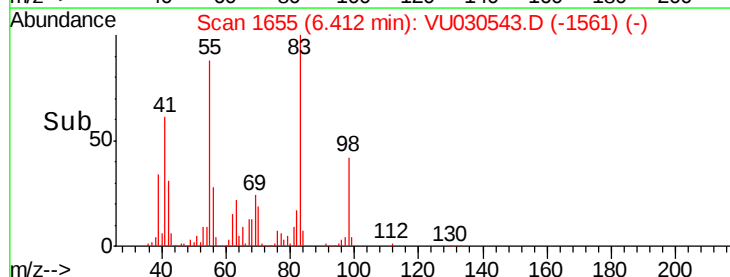
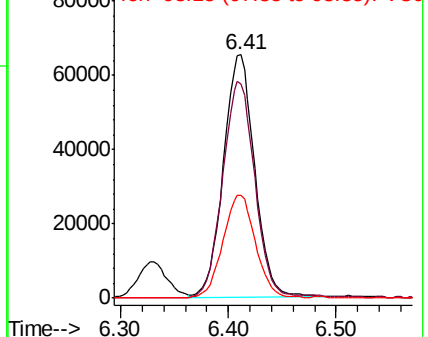
98 44.5 35.0 52.6

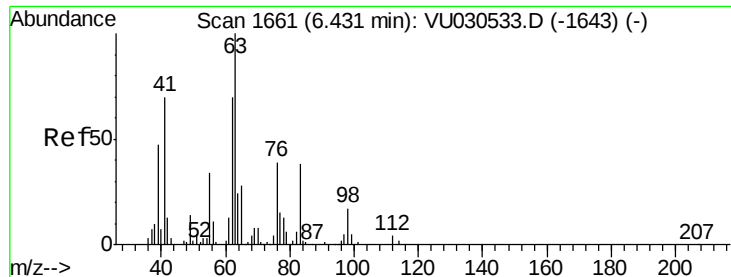


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.805 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

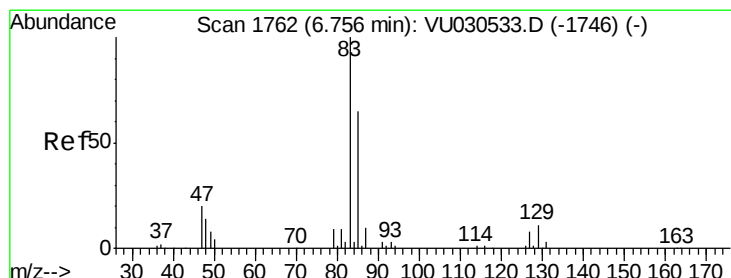
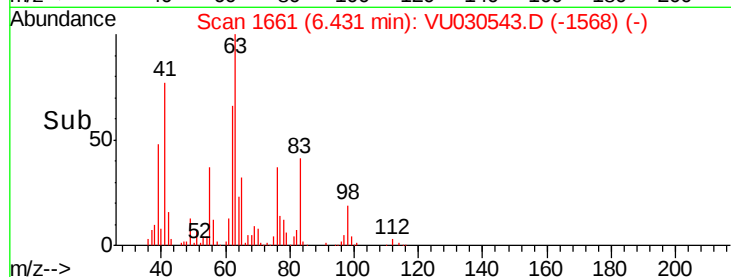
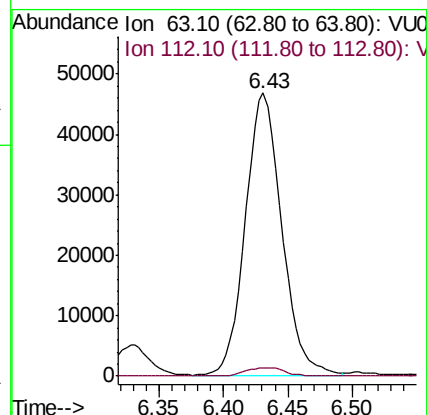
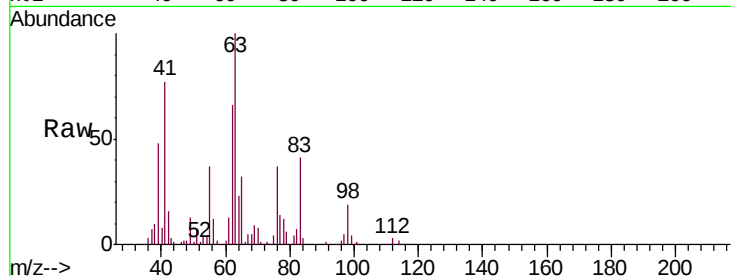
VSTD00507

Tgt Ion: 63 Resp: 91693

Ion Ratio Lower Upper

63 100

112 3.3 2.8 4.2



#38

Bromodichloromethane

Concen: 4.859 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

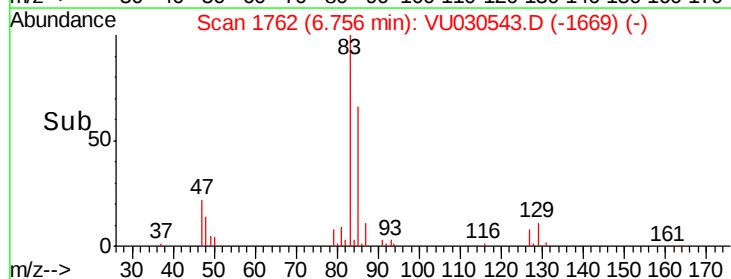
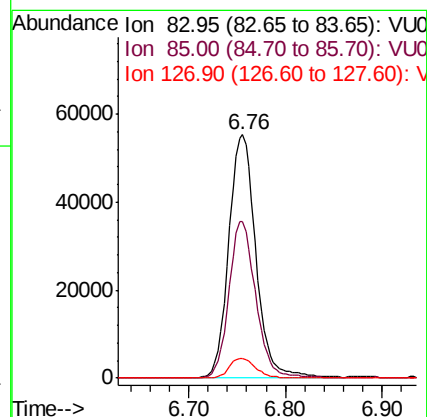
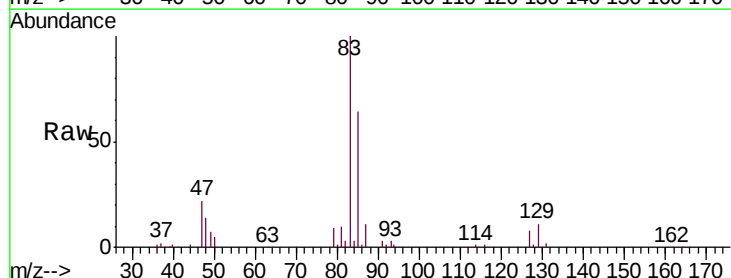
Tgt Ion: 83 Resp: 108268

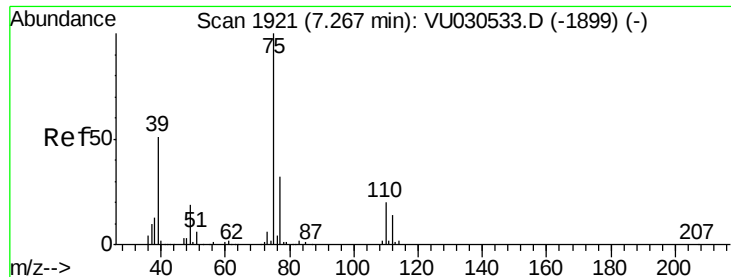
Ion Ratio Lower Upper

83 100

85 64.2 45.1 83.9

127 8.0 6.5 9.7

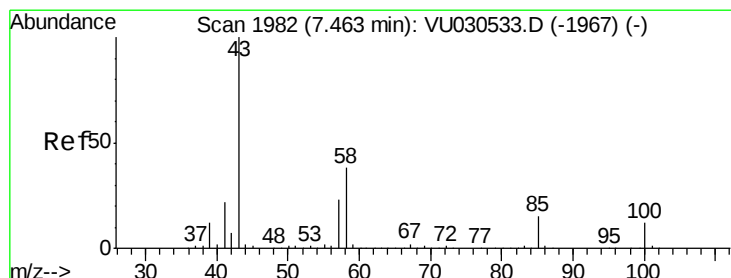
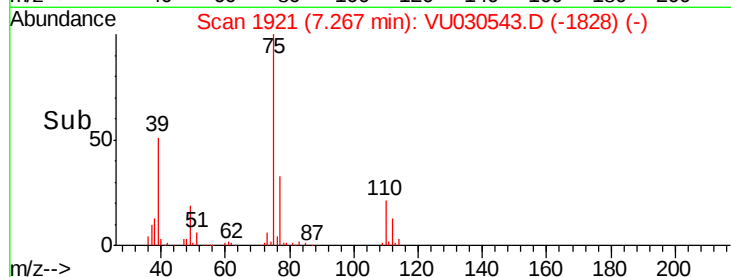
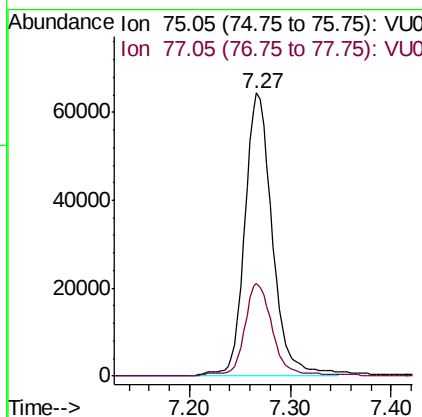
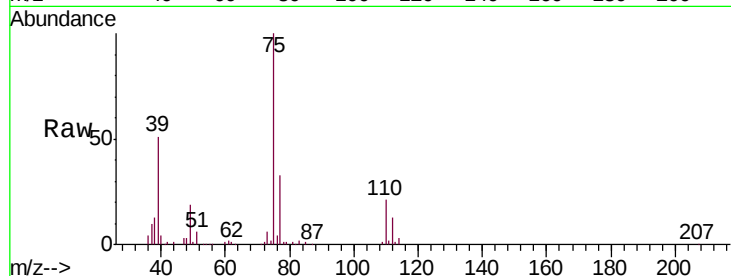




#39
 cis-1,3-Dichloropropene
 Concen: 4.763 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU030543.D
 Acq: 29 Mar 2019 15:04

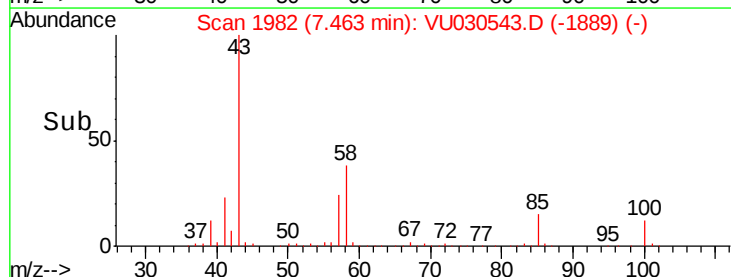
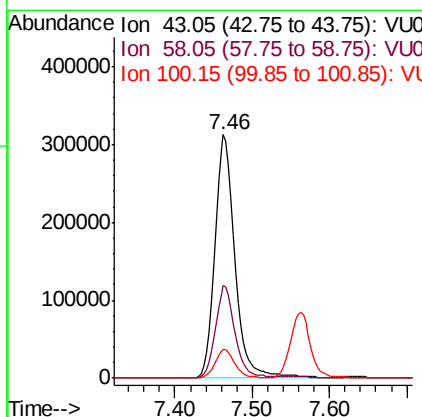
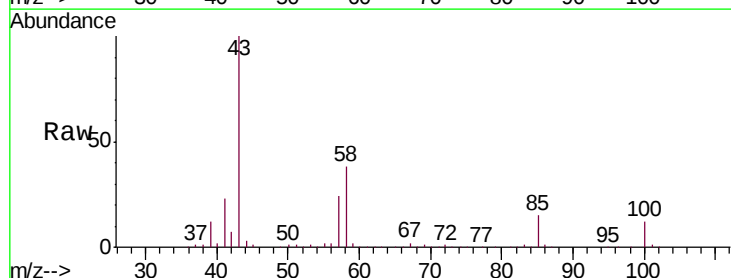
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

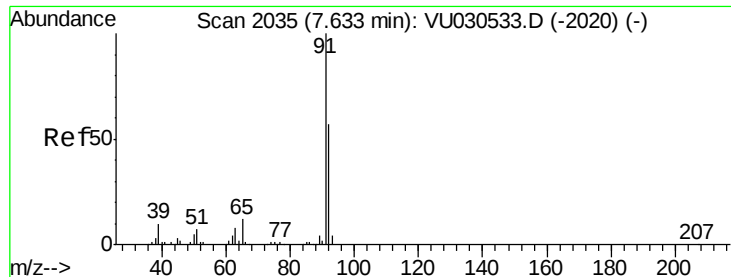
Tgt Ion: 75 Resp: 121557
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 48.521 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. -0.00 min
 Lab File: VU030543.D
 Acq: 29 Mar 2019 15:04

Tgt Ion: 43 Resp: 577616
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.4 44.2
 100 11.6 9.2 13.8





#42

Toluene

Concen: 5.001 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

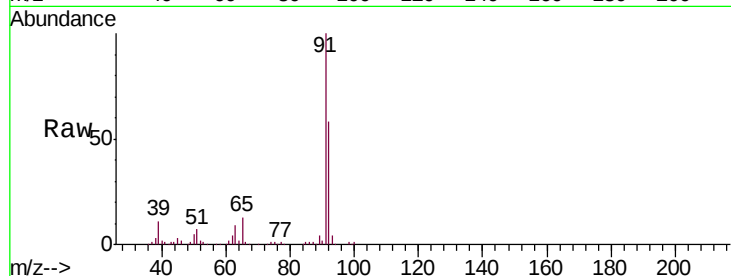
VSTD00507

Tgt Ion: 91 Resp: 347780

Ion Ratio Lower Upper

91 100

92 57.5 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU030533.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU030533.D (-2020) (-)

7.63

200000

150000

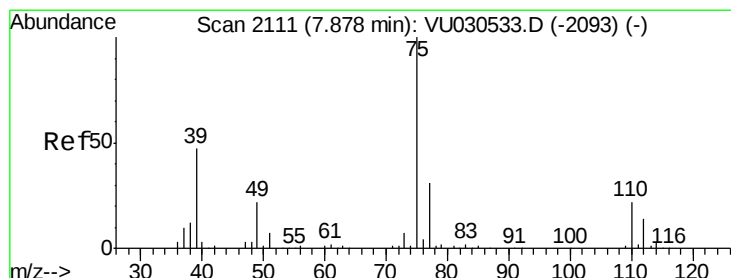
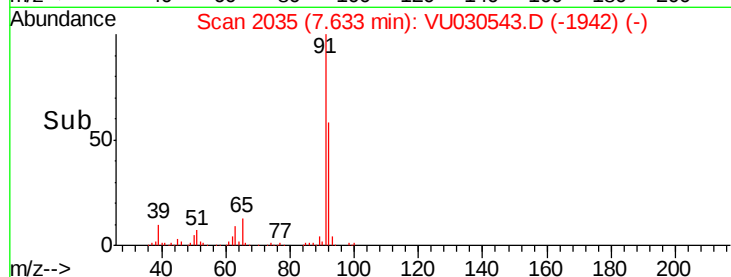
100000

50000

0

7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.898 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU030543.D

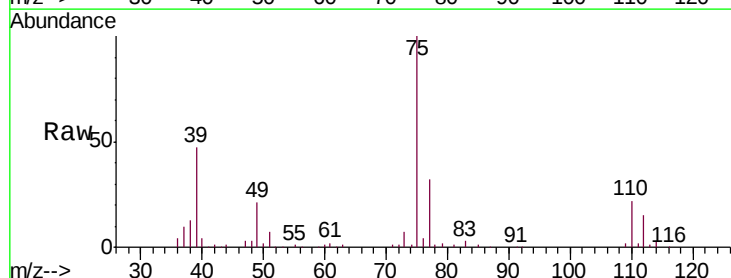
Acq: 29 Mar 2019 15:04

Tgt Ion: 75 Resp: 96753

Ion Ratio Lower Upper

75 100

77 32.2 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU030533.D (-2093) (-)

Ion 77.05 (76.75 to 77.75): VU030533.D (-2093) (-)

7.88

60000

50000

40000

30000

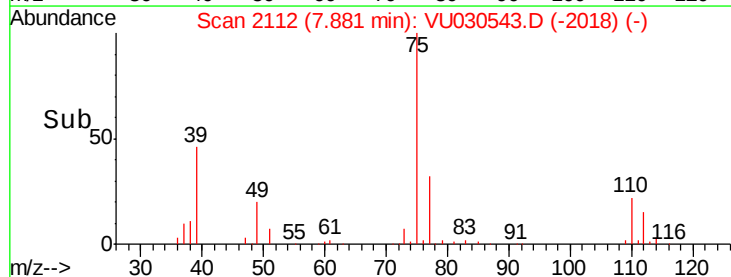
20000

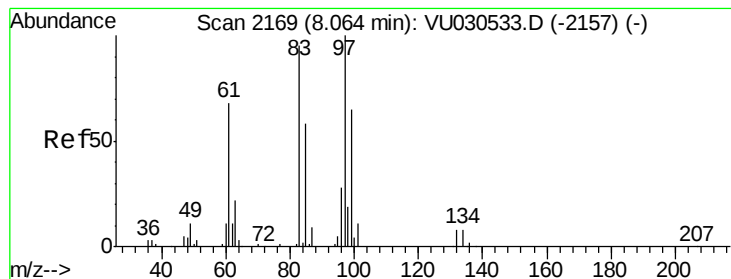
10000

0

7.80 7.90 8.00

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.028 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

Tgt Ion: 97 Resp: 57216

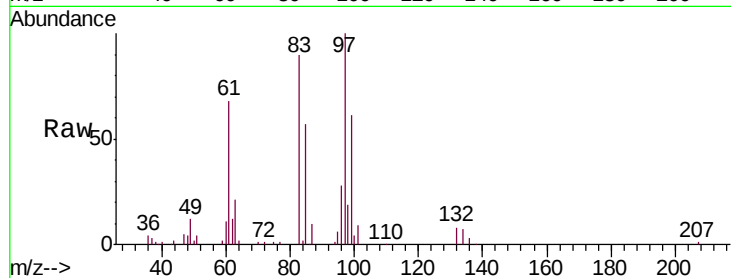
Ion Ratio Lower Upper

97 100

99 61.0 45.3 84.1

83 90.0 66.5 123.5

85 56.9 41.2 76.4

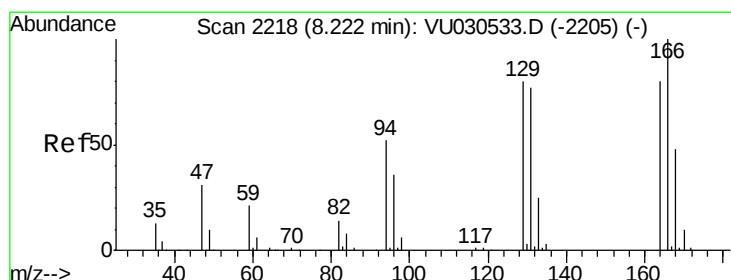
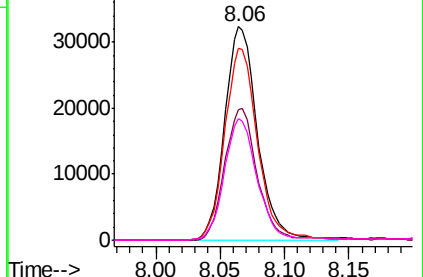
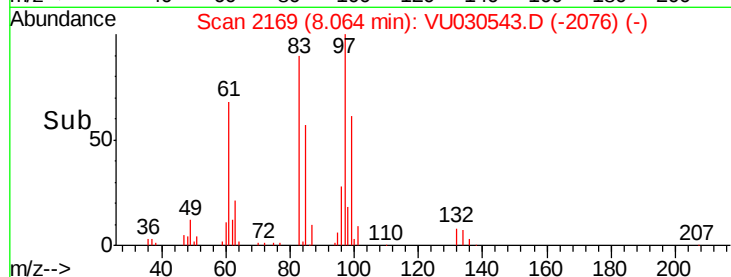


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 4.899 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Tgt Ion: 164 Resp: 59654

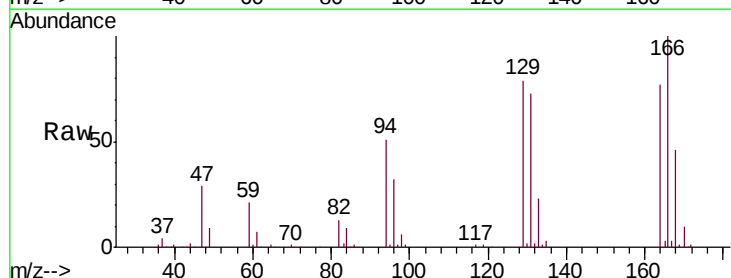
Ion Ratio Lower Upper

164 100

129 102.9 70.1 130.1

131 95.1 67.8 125.8

166 129.7 87.9 163.3

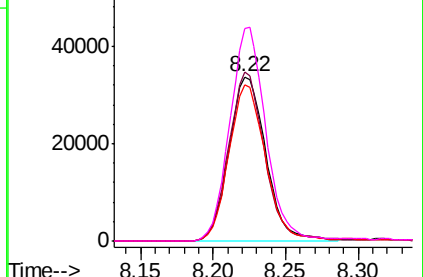
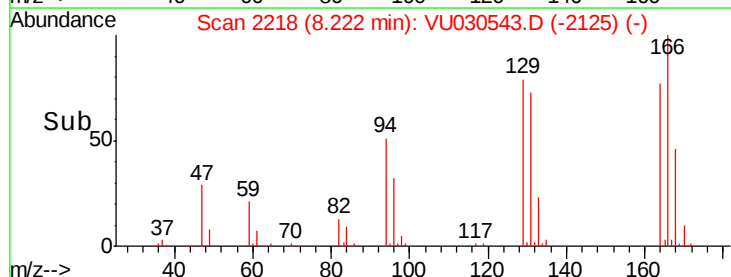


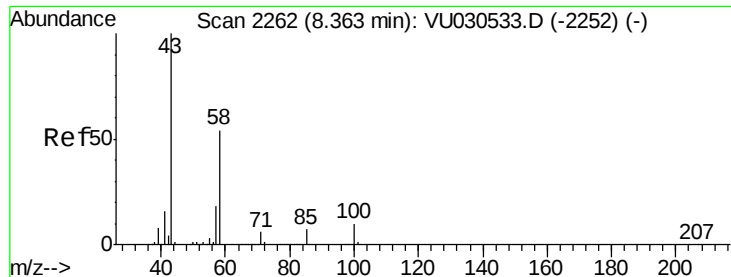
Abundance Ion 163.90 (163.60 to 164.60): V

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

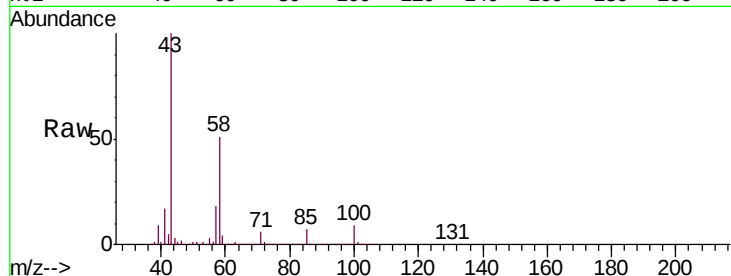




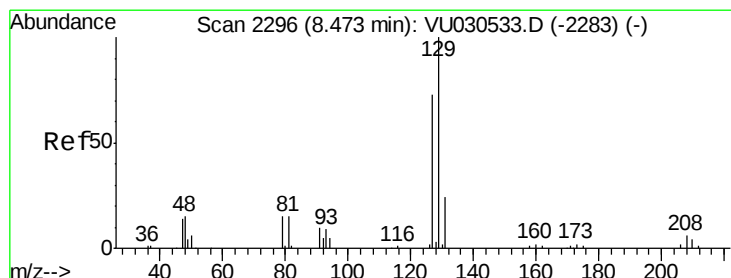
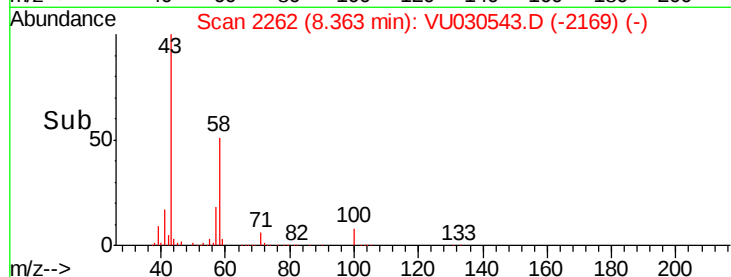
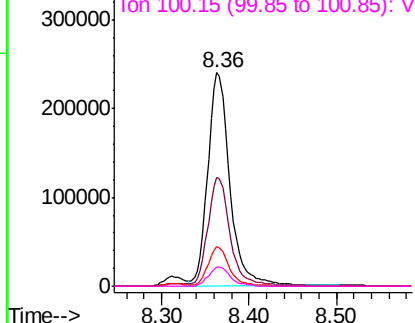
#48
2-Hexanone
Concen: 51.034 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

Tgt Ion:	43	Resp:	420954
Ion	Ratio	Lower	Upper
43	100		
58	51.2	42.5	63.7
57	18.1	13.9	20.9
100	9.2	7.1	10.7

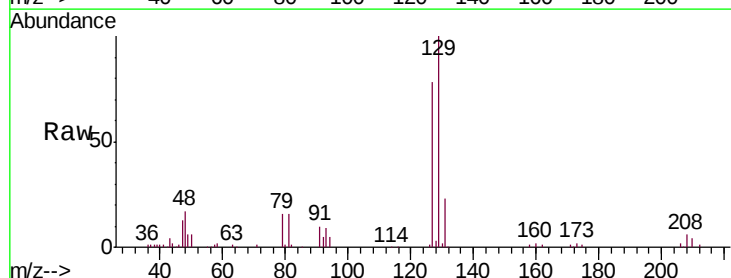


Abundance Ion 43.05 (42.75 to 43.75): VU030543.D (-2169) (-)
Ion 58.05 (57.75 to 58.75): VU030543.D (-2169) (-)
Ion 57.20 (56.90 to 57.90): VU030543.D (-2169) (-)
Ion 100.15 (99.85 to 100.85): VU030543.D (-2169) (-)

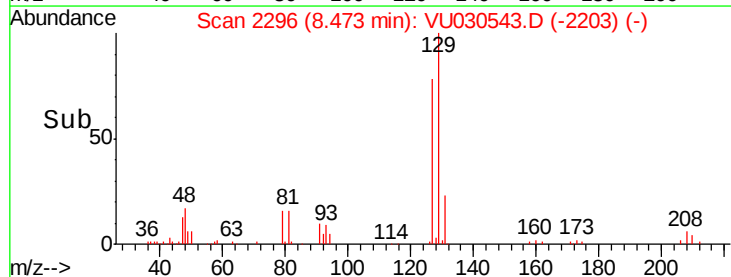
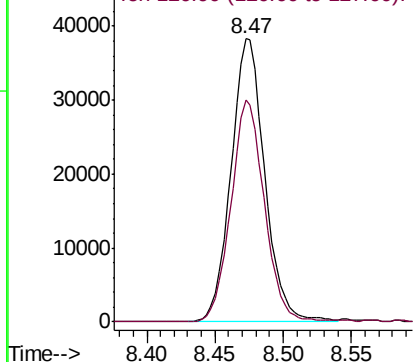


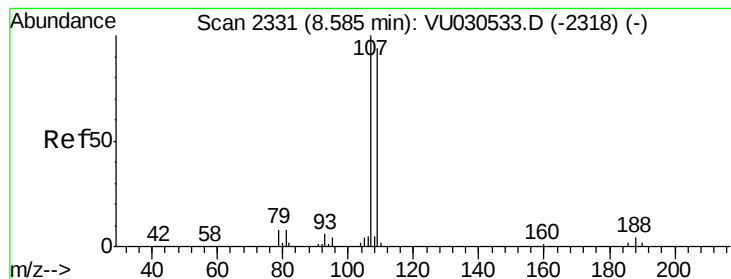
#49
Dibromochloromethane
Concen: 4.837 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

Tgt Ion:	129	Resp:	65824
Ion	Ratio	Lower	Upper
129	100		
127	78.3	51.1	94.9



Abundance Ion 128.95 (128.65 to 129.65): VU030543.D (-2203) (-)
Ion 126.90 (126.60 to 127.60): VU030543.D (-2203) (-)





#50

1,2-Dibromoethane

Concen: 5.065 ug/L

RT: 8.59 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

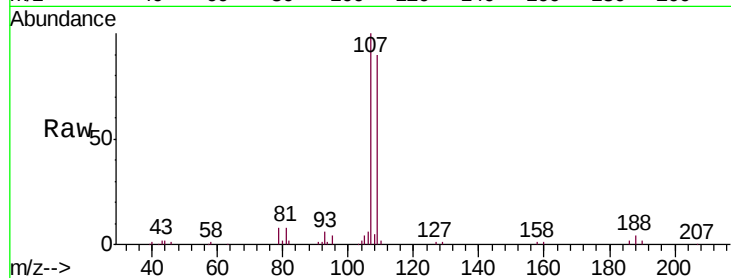
Tgt Ion:107 Resp: 53725

Ion Ratio Lower Upper

107 100

109 89.6 65.6 121.8

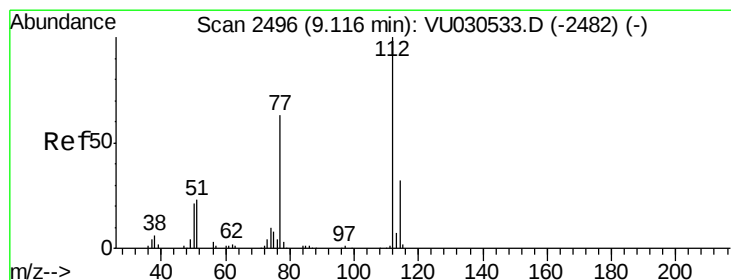
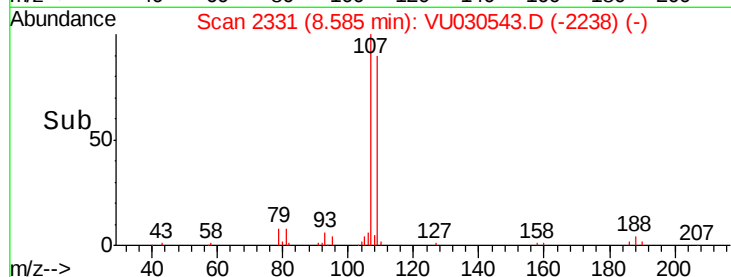
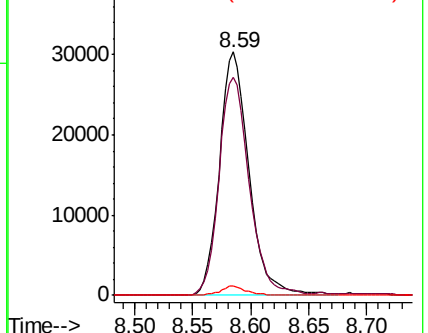
188 3.9 2.9 4.3



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: 4.811 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

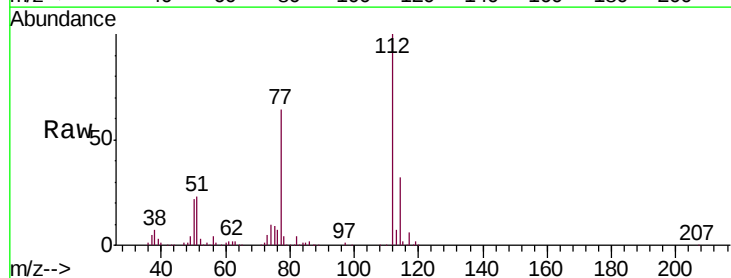
Tgt Ion:112 Resp: 206316

Ion Ratio Lower Upper

112 100

114 31.9 22.3 41.5

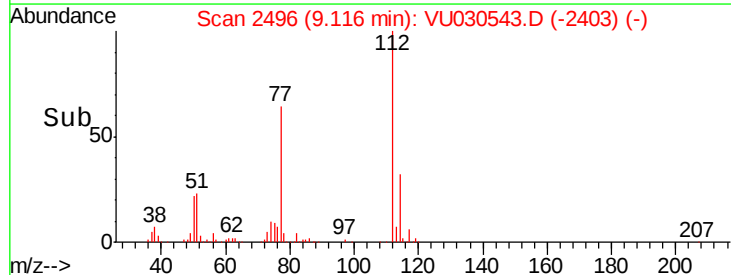
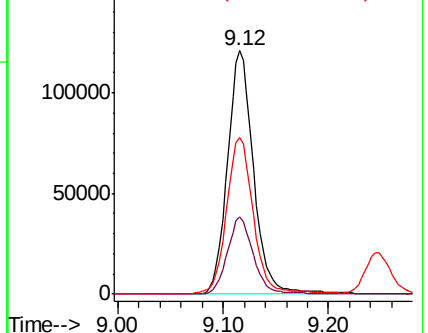
77 64.5 51.0 76.6

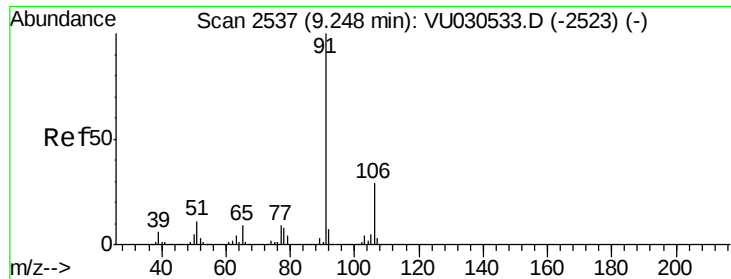


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 4.907 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

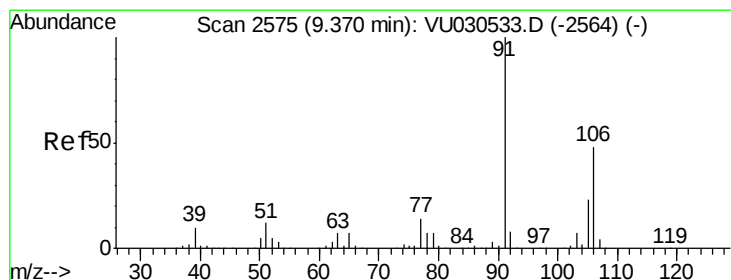
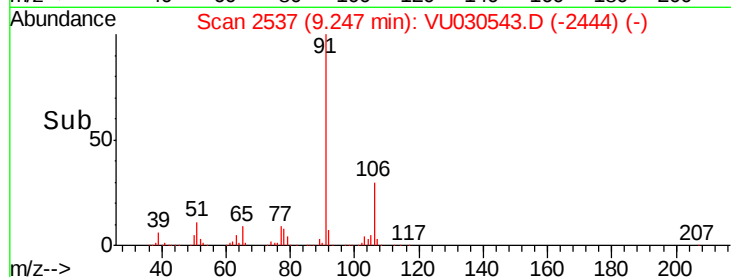
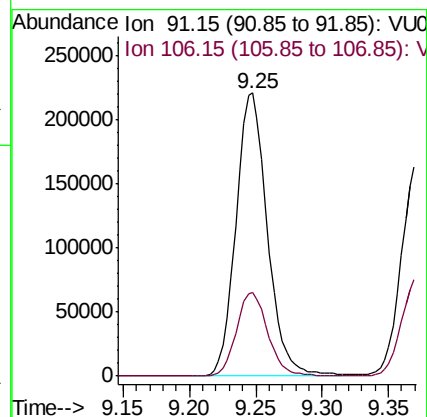
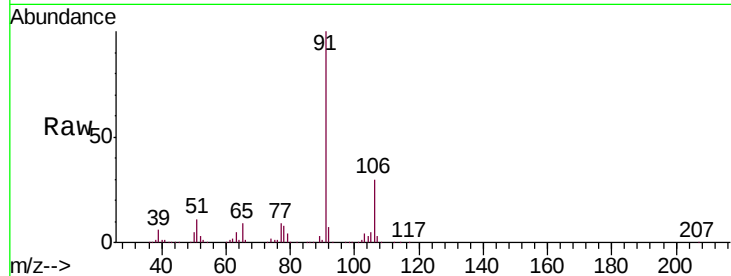
VSTD00507

Tgt Ion: 91 Resp: 363972

Ion Ratio Lower Upper

91 100

106 29.5 20.2 37.4



#53

m,p-Xylene

Concen: 5.048 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030543.D

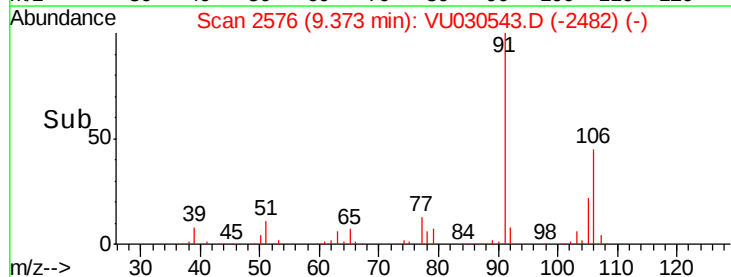
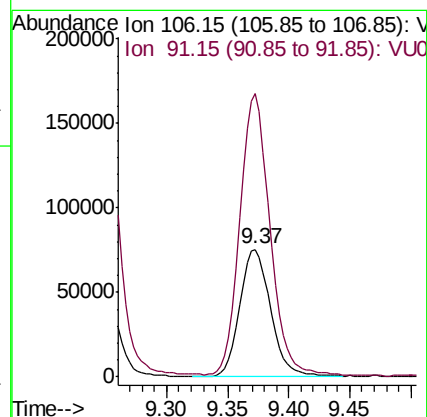
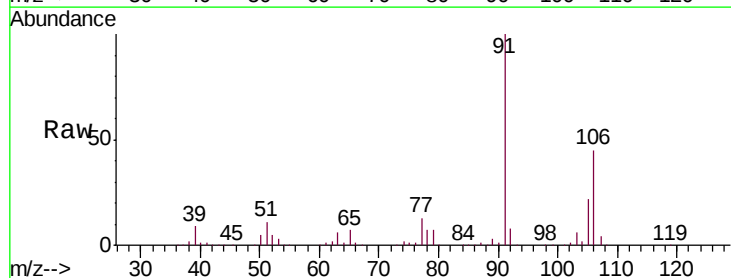
Acq: 29 Mar 2019 15:04

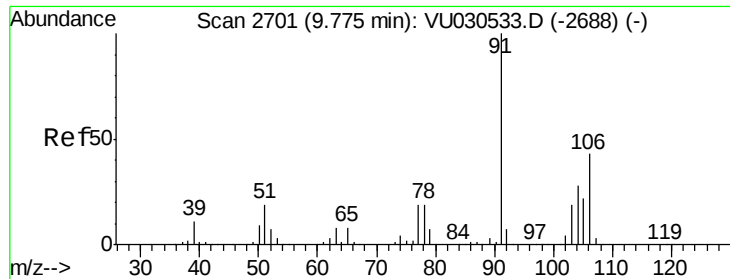
Tgt Ion: 106 Resp: 130787

Ion Ratio Lower Upper

106 100

91 221.7 147.4 273.8

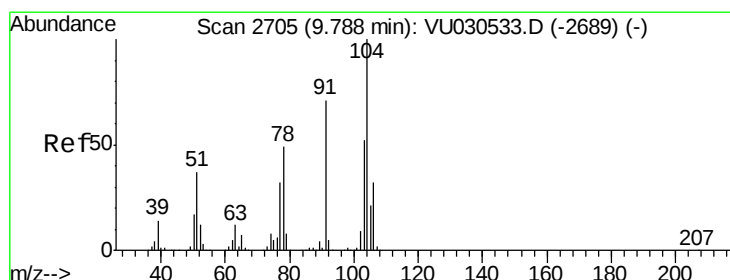
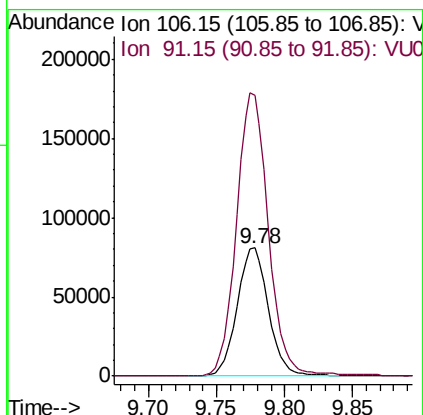
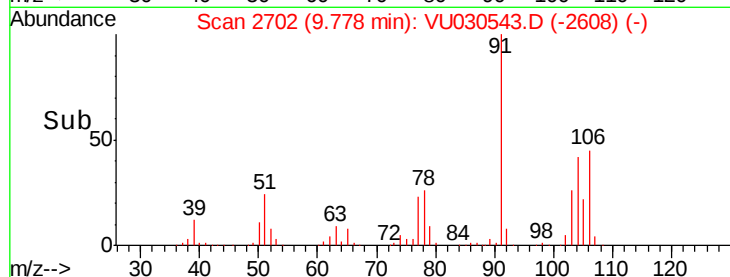
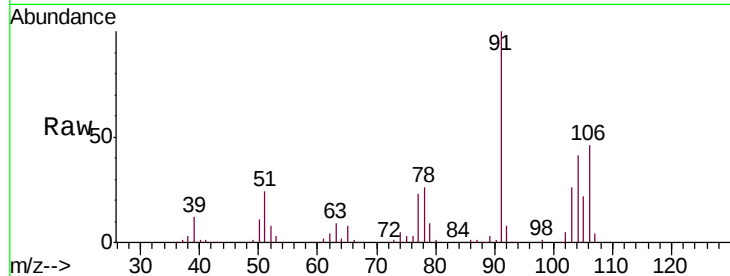




#54
o-Xylene
Concen: 5.076 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

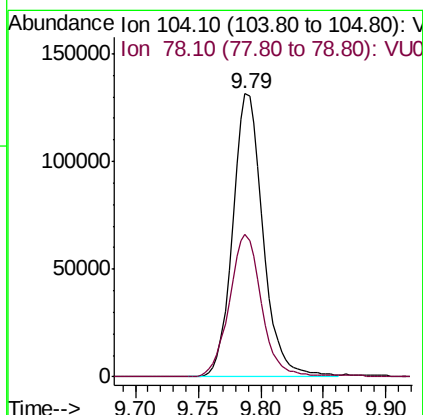
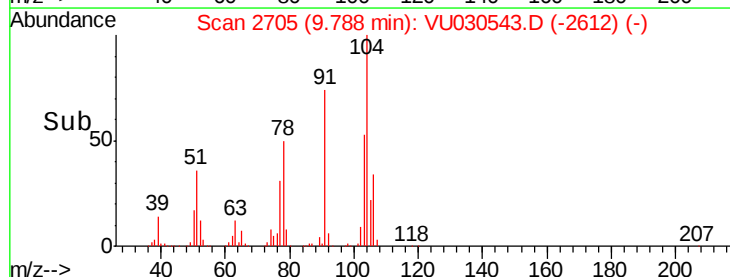
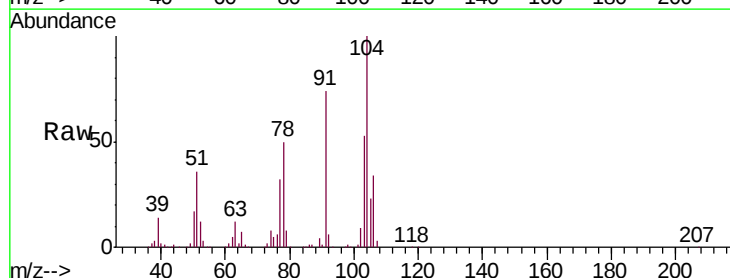
Instrument :
MSVOA_U
ClientSampleId :
VSTD00507

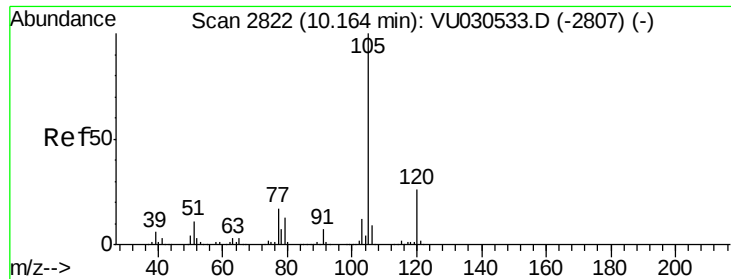
Tgt Ion:106 Resp: 128973
Ion Ratio Lower Upper
106 100
91 219.3 161.3 299.7



#55
Styrene
Concen: 5.146 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU030543.D
Acq: 29 Mar 2019 15:04

Tgt Ion:104 Resp: 220571
Ion Ratio Lower Upper
104 100
78 50.2 34.4 63.8





#56

Isopropylbenzene

Concen: 4.958 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampled :

VSTD00507

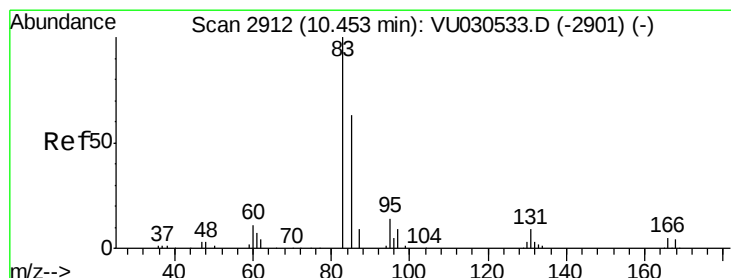
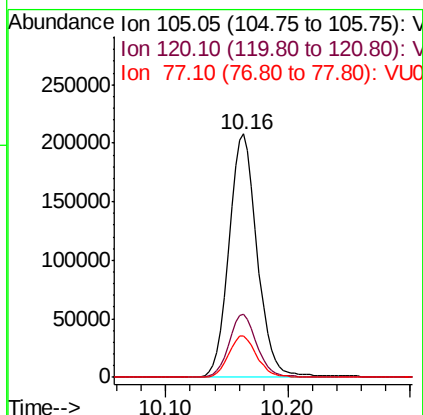
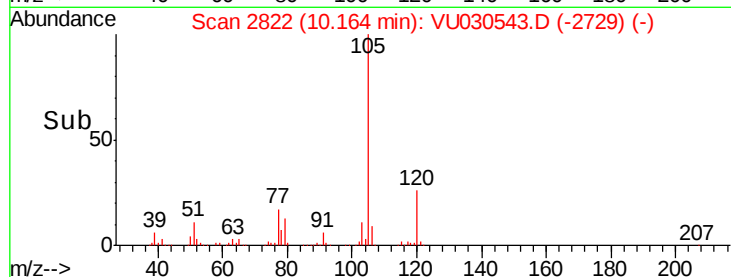
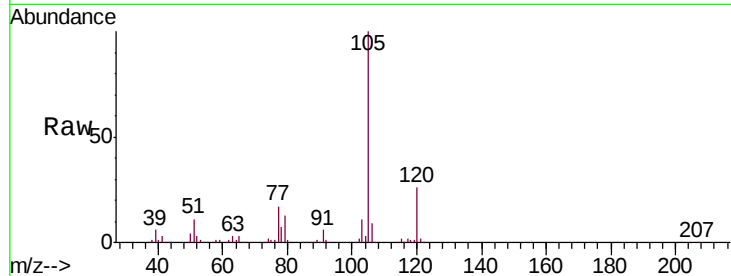
Tgt Ion:105 Resp: 336484

Ion Ratio Lower Upper

105 100

120 25.8 20.5 30.7

77 17.3 13.8 20.8



#58

1,1,2,2-Tetrachloroethane

Concen: 4.986 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

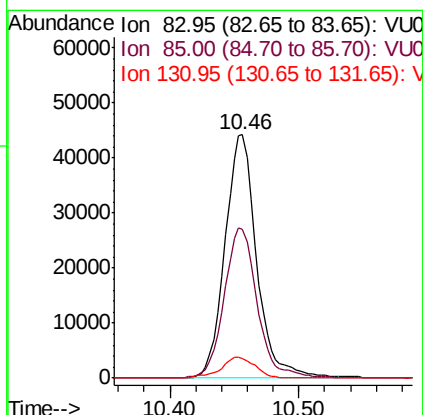
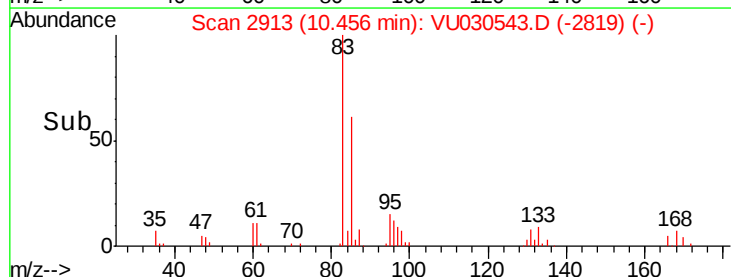
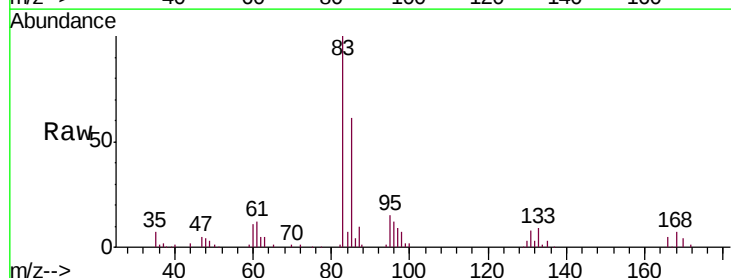
Tgt Ion: 83 Resp: 75429

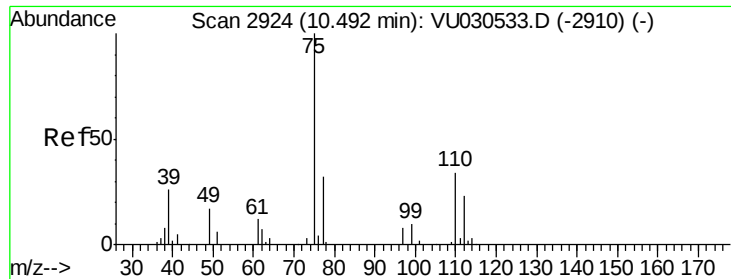
Ion Ratio Lower Upper

83 100

85 61.1 44.4 82.5

131 8.0 7.4 11.2





#59

1,2,3-Trichloropropane

Concen: 4.655 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

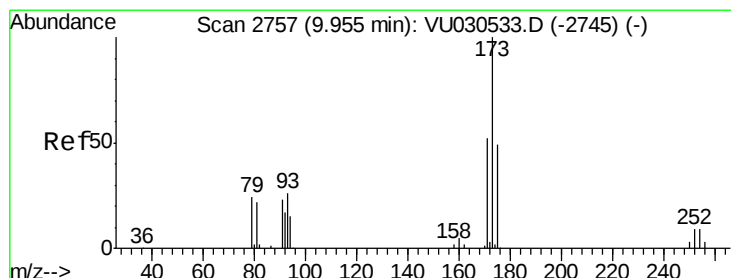
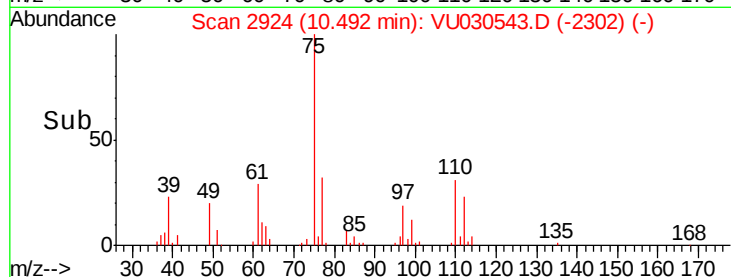
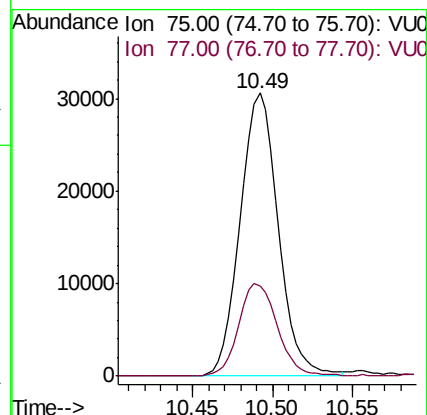
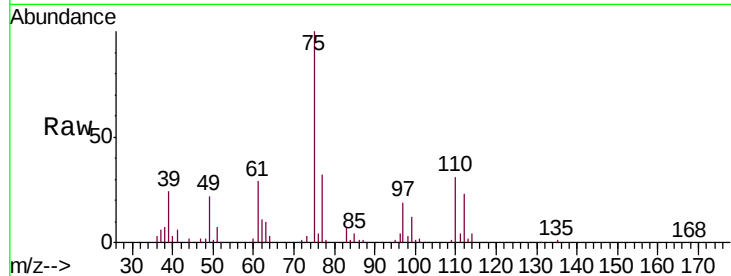
VSTD00507

Tgt Ion: 75 Resp: 49642

Ion Ratio Lower Upper

75 100

77 33.3 25.6 38.4



#61

Bromoform

Concen: 4.741 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

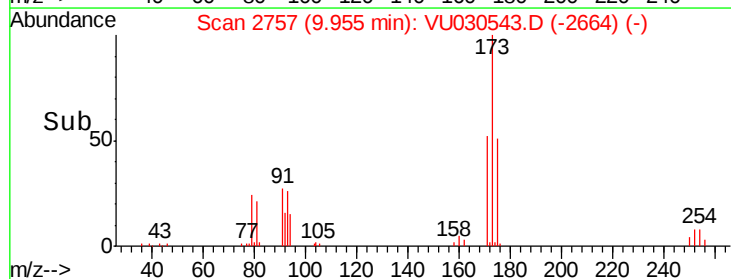
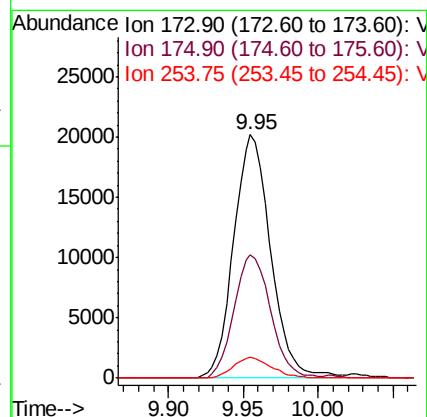
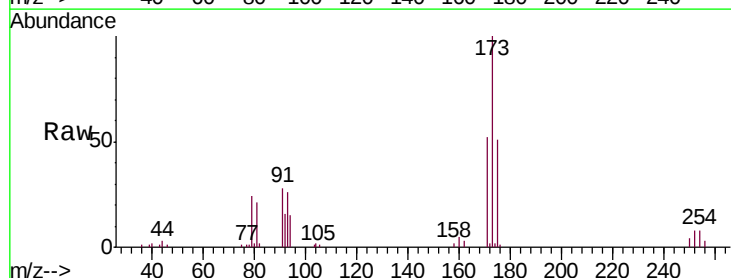
Tgt Ion: 173 Resp: 34813

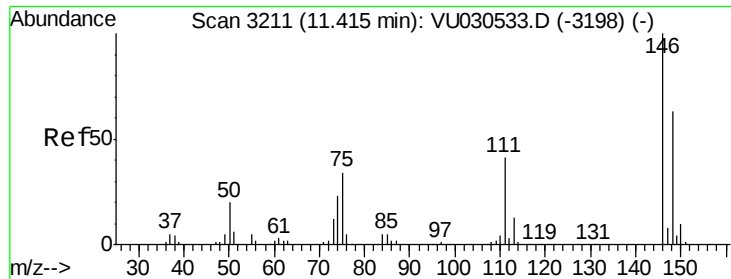
Ion Ratio Lower Upper

173 100

175 50.0 38.6 58.0

254 8.6 7.0 10.4





#62

1,3-Dichlorobenzene

Concen: 4.757 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

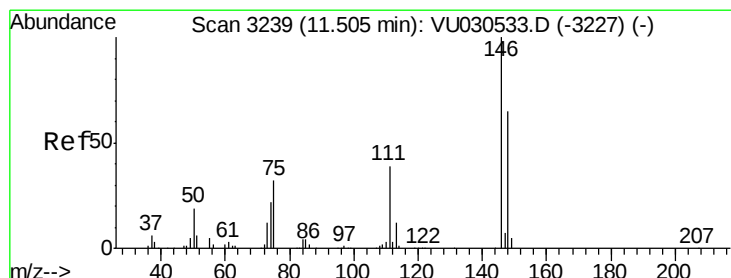
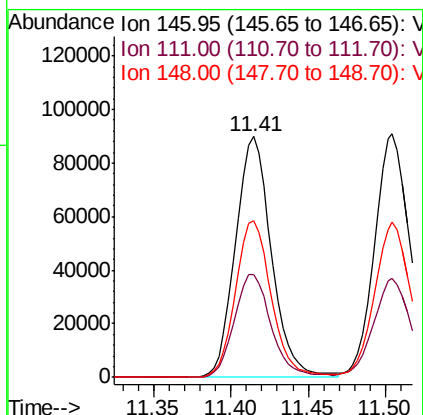
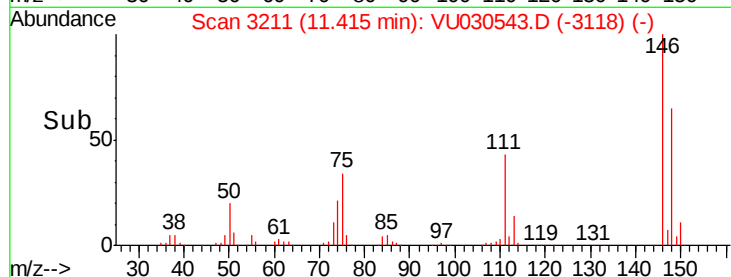
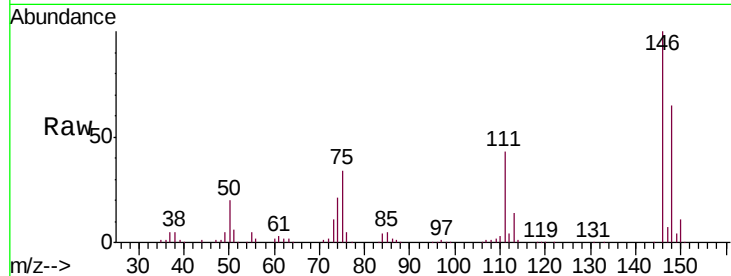
Tgt Ion:146 Resp: 145541

Ion Ratio Lower Upper

146 100

111 42.6 28.9 53.7

148 64.9 44.4 82.4



#63

1,4-Dichlorobenzene

Concen: 4.661 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

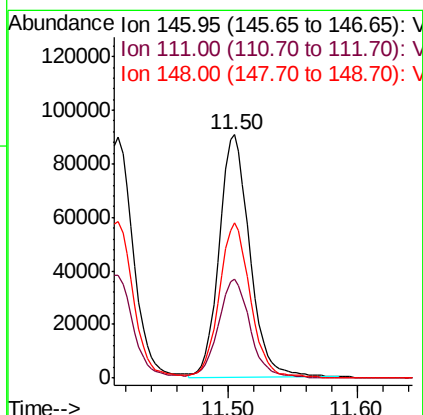
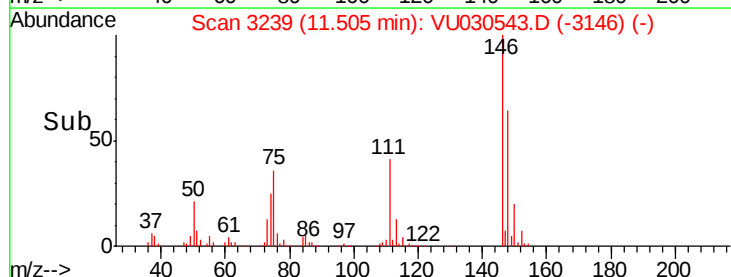
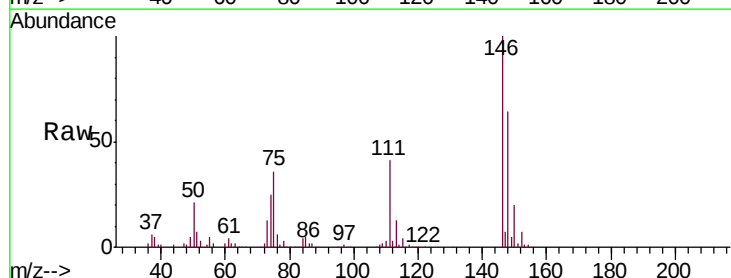
Tgt Ion:146 Resp: 149493

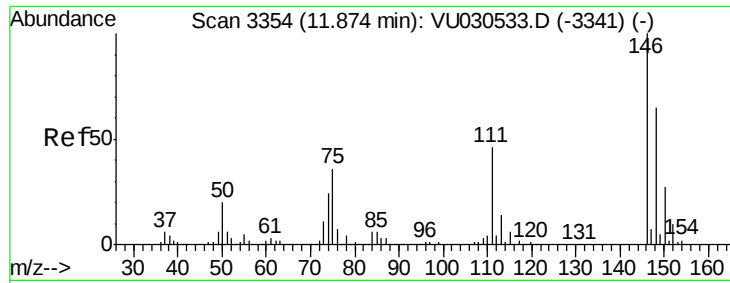
Ion Ratio Lower Upper

146 100

111 40.6 27.9 51.9

148 63.6 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 4.777 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

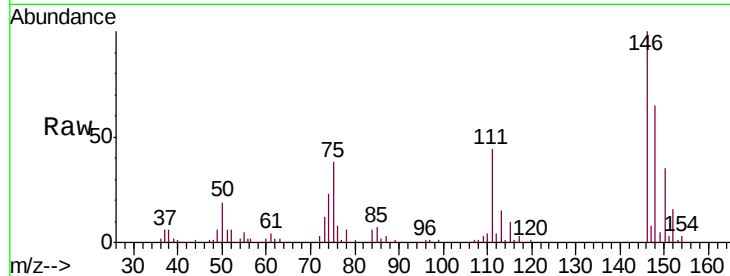
Tgt Ion: 146 Resp: 142226

Ion Ratio Lower Upper

146 100

111 44.0 37.1 55.7

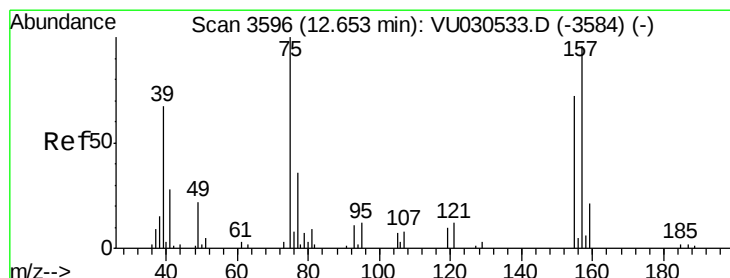
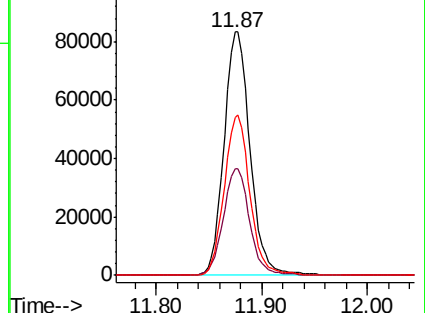
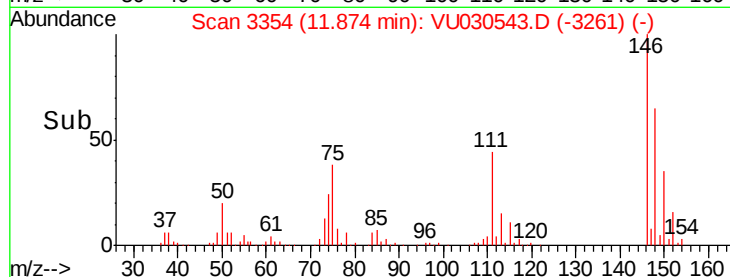
148 64.9 51.8 77.8



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: 4.806 ug/L

RT: 12.66 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

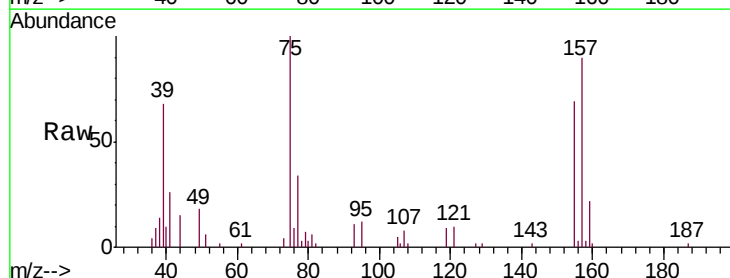
Tgt Ion: 75 Resp: 11072

Ion Ratio Lower Upper

75 100

155 69.2 57.7 86.5

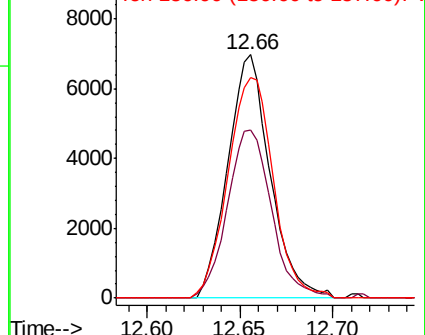
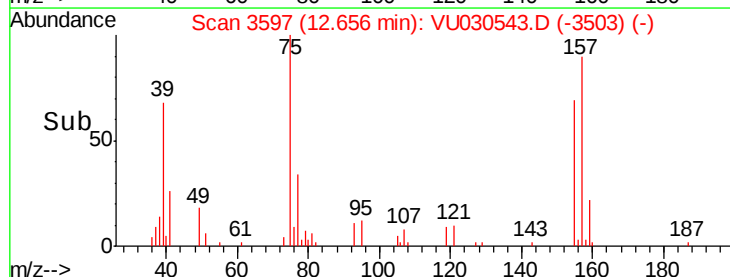
157 90.4 76.9 115.3

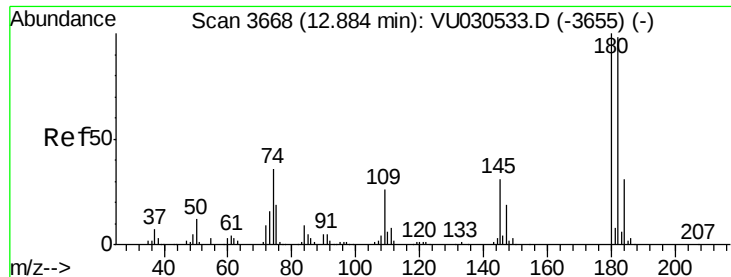


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

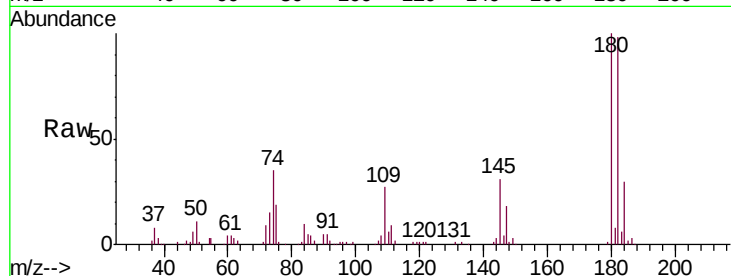




#67
 1,3,5-Trichlorobenzene
 Concen: 4.873 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030543.D
 Acq: 29 Mar 2019 15:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00507

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.2	114.2
184	31.0	24.2	36.2
145	30.2	24.1	36.1



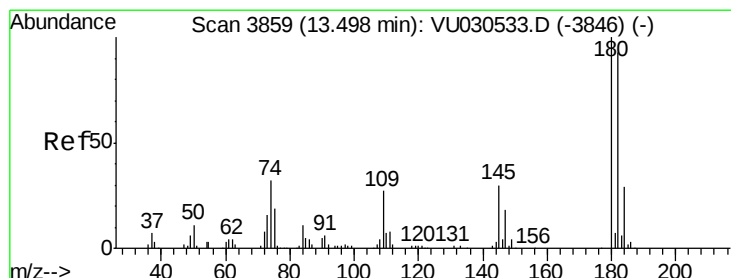
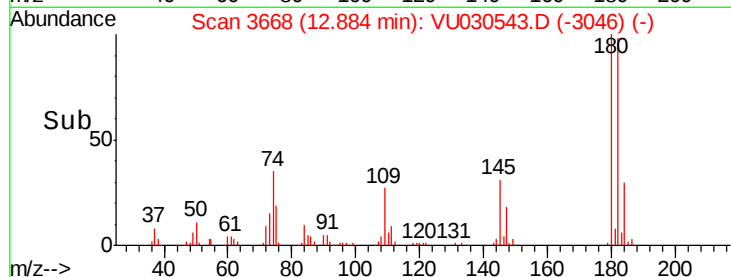
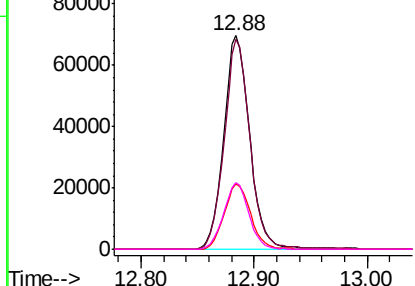
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

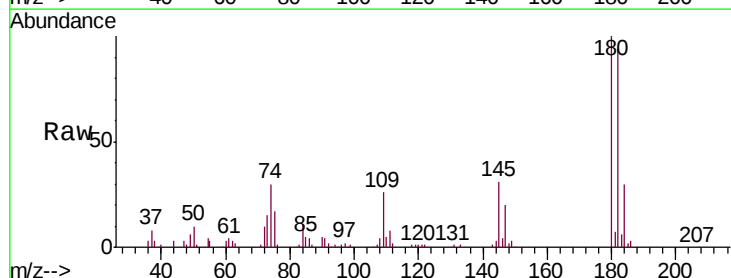
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.969 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030543.D
 Acq: 29 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.4	74.6	111.8
145	31.0	23.6	35.4

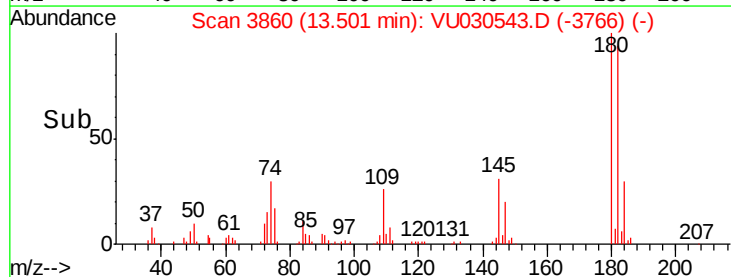
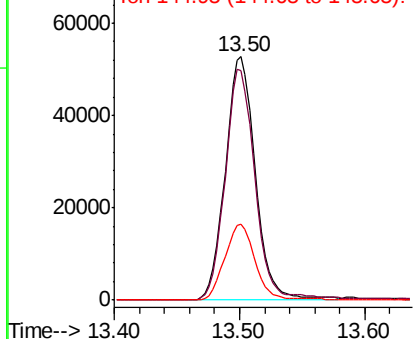


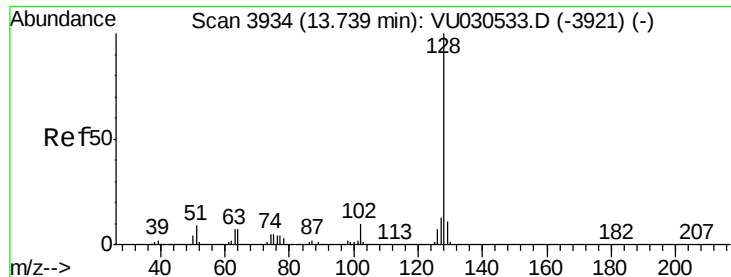
Abundance

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: 4.773 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD00507

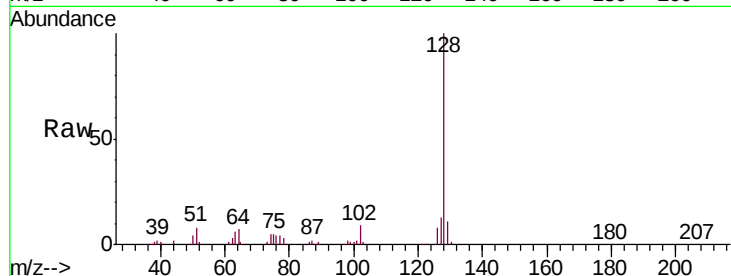
Tgt Ion:128 Resp: 135144

Ion Ratio Lower Upper

128 100

129 10.4 8.3 12.5

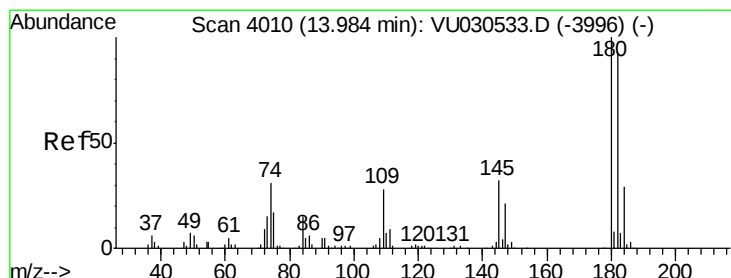
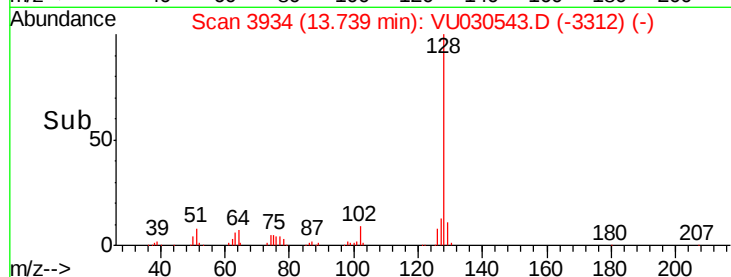
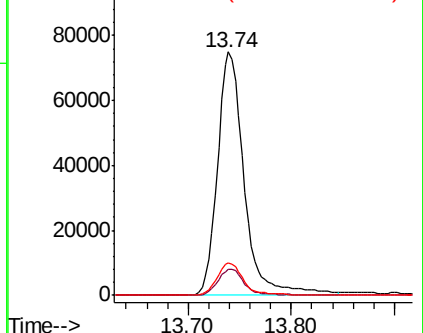
127 13.1 10.5 15.7



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: 5.012 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030543.D

Acq: 29 Mar 2019 15:04

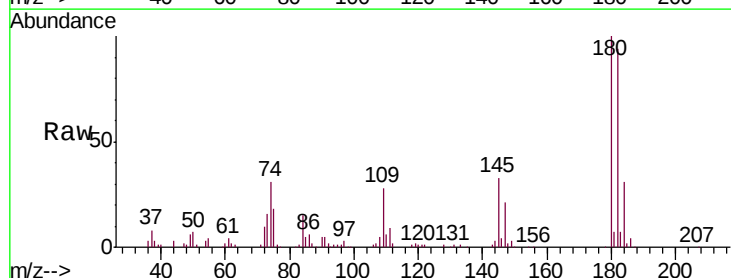
Tgt Ion:180 Resp: 82353

Ion Ratio Lower Upper

180 100

182 96.4 76.8 115.2

145 32.7 26.7 40.1



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

