

Data File : VU030470.D
Acq On : 27 Mar 2019 01:47
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Quant Time: Mar 27 06:08:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 27 06:00:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	435938	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	412673	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	194772	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	176562	50.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.66%
7) Chloroethane-d5	1.66	69	140102	50.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.76%
11) 1,1-Dichloroethene-d2	2.27	63	327486	49.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.42%
21) 2-Butanone-d5	4.17	46	355445	107.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.77%
24) Chloroform-d	4.64	84	308580	51.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.10%
26) 1,2-Dichloroethane-d4	5.30	65	200922	50.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.60%
32) Benzene-d6	5.33	84	600468	50.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.48%
36) 1,2-Dichloropropane-d6	6.32	67	215858	53.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.62%
41) Toluene-d8	7.56	98	531698	50.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.06%
43) trans-1,3-Dichloropropene-	7.85	79	95417	50.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.24%
47) 2-Hexanone-d5	8.31	63	249460	113.69	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.69%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	311318	53.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	107.46%
64) 1,2-Dichlorobenzene-d4	11.85	152	197133	50.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.02%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	224957	46.770	ug/L	99
3) Chloromethane	1.33	50	263900	49.057	ug/L	99
5) Vinyl chloride	1.40	62	253713	49.737	ug/L	98
6) Bromomethane	1.60	94	105889	45.249	ug/L	100
8) Chloroethane	1.68	64	136082	47.253	ug/L	99
9) Trichlorofluoromethane	1.87	101	279521	50.249	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	150590	47.331	ug/L	99
12) 1,1-Dichloroethene	2.28	96	150523	48.260	ug/L	95
13) Acetone	2.32	43	238201	71.418	ug/L	99
14) Carbon disulfide	2.47	76	482180	46.756	ug/L	99
15) Methyl Acetate	2.61	43	259451	50.803	ug/L #	100
16) Methylene chloride	2.70	84	182608	49.664	ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	157228	48.049	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	557207	51.492	ug/L	99
19) 1,1-Dichloroethane	3.44	63	341597	50.883	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	181573	49.477	ug/L	98
22) 2-Butanone	4.26	43	379023	94.017	ug/L	100

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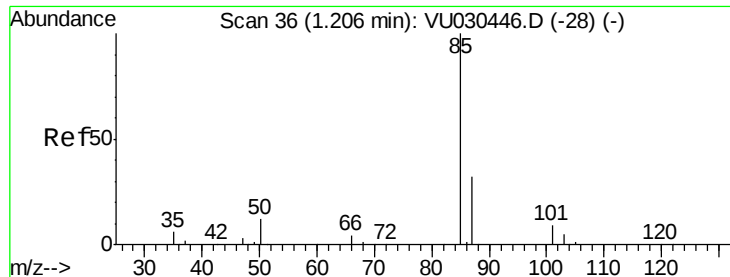
Quant Time: Mar 27 06:08:56 2019
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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	85892	50.355	ug/L	97
25) Chloroform	4.67	83	322898	50.587	ug/L	97
27) 1,2-Dichloroethane	5.40	62	259825	51.875	ug/L	100
29) Cyclohexane	4.99	56	319970	51.236	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	258445	51.147	ug/L	100
31) Carbon tetrachloride	5.13	117	225007	52.536	ug/L	100
33) Benzene	5.38	78	732413	52.137	ug/L	100
34) Trichloroethene	6.18	95	171097	49.545	ug/L	97
35) Methylcyclohexane	6.41	83	276411	48.640	ug/L	99
37) 1,2-Dichloropropane	6.43	63	205461	51.538	ug/L	100
38) Bromodichloromethane	6.75	83	244903	51.701	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	290989	50.782	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	713875	106.607	ug/L	99
42) Toluene	7.63	91	759975	52.127	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	254937	50.563	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	173712	51.571	ug/L	98
46) Tetrachloroethene	8.22	164	117759	48.821	ug/L	98
48) 2-Hexanone	8.36	43	559206	101.892	ug/L	100
49) Dibromochloromethane	8.47	129	179723	51.349	ug/L	99
50) 1,2-Dibromoethane	8.58	107	183984	50.894	ug/L	99
51) Chlorobenzene	9.12	112	446869	50.574	ug/L	99
52) Ethylbenzene	9.25	91	818698	51.838	ug/L	99
53) m,p-Xylene	9.37	106	296464	51.988	ug/L	100
54) o-xylene	9.77	106	297306	53.432	ug/L	98
55) Styrene	9.79	104	502711	52.449	ug/L	100
56) Isopropylbenzene	10.16	105	767344	52.083	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	321314	51.757	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	255130	52.577	ug/L	100
61) Bromoform	9.95	173	131399	50.741	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	316103	49.627	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	318846	48.625	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	330568	51.325	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	70184	48.939	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	226677	47.537	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	188927	45.600	ug/L	99
69) Naphthalene	13.74	128	643791	43.699	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	203496	46.514	ug/L	97

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

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#2

Dichlorodifluoromethane

Concen: 46.770 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

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ClientSampleId :

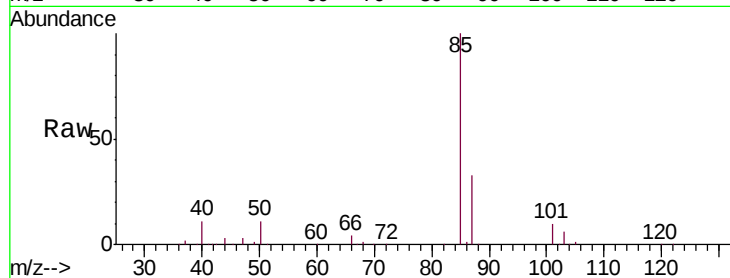
VSTD05034

Tgt Ion: 85 Resp: 224957

Ion Ratio Lower Upper

85 100

87 32.5 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU030446.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU030446.D (-28) (-)

1.20

250000

200000

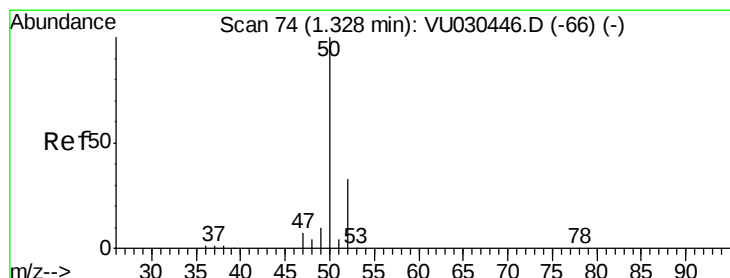
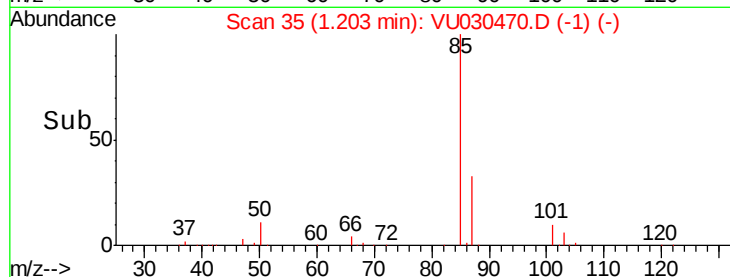
150000

100000

50000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 49.057 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030470.D

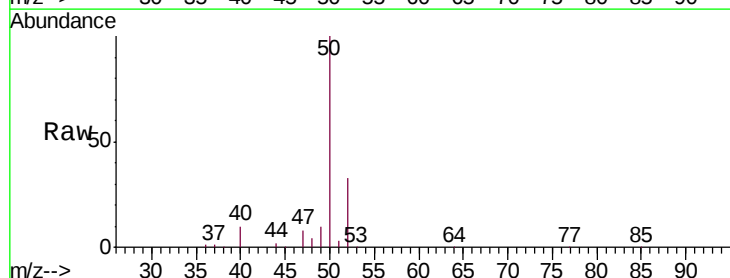
Acq: 27 Mar 2019 01:47

Tgt Ion: 50 Resp: 263900

Ion Ratio Lower Upper

50 100

52 33.4 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU030446.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU030446.D (-66) (-)

1.33

250000

200000

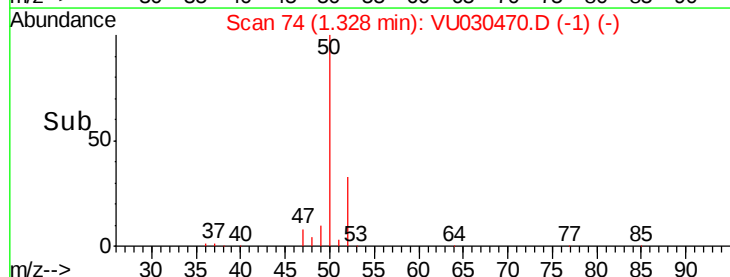
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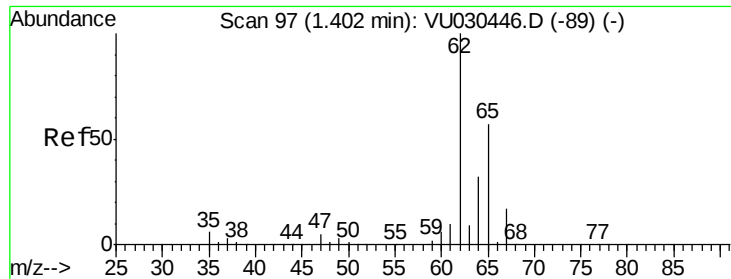
100000

50000

0

Time--> 1.30 1.35





#5

Vinyl chloride

Concen: 49.737 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

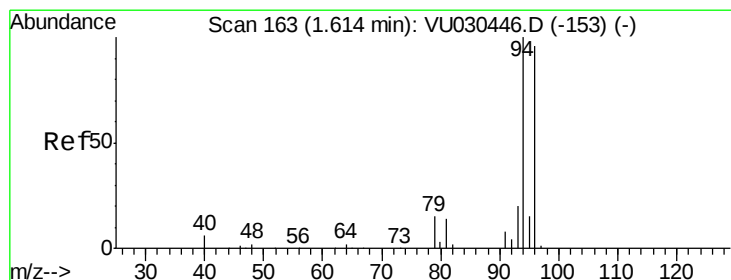
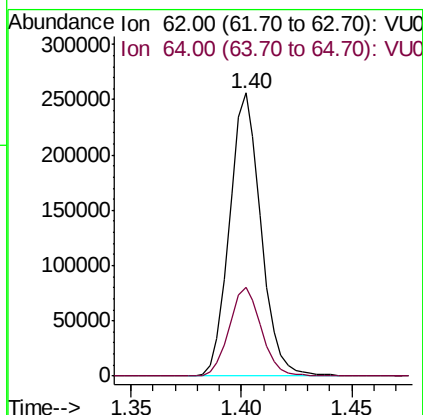
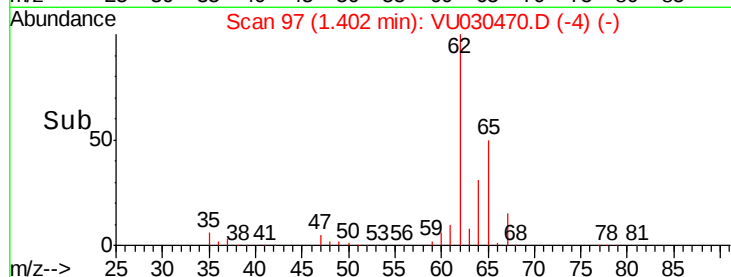
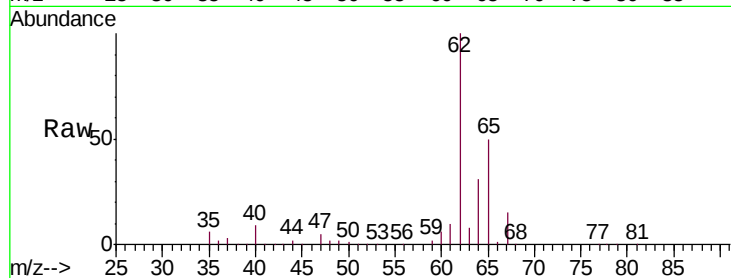
VSTD05034

Tgt Ion: 62 Resp: 253713

Ion Ratio Lower Upper

62 100

64 31.4 22.6 42.0



#6

Bromomethane

Concen: 45.249 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.01 min

Lab File: VU030470.D

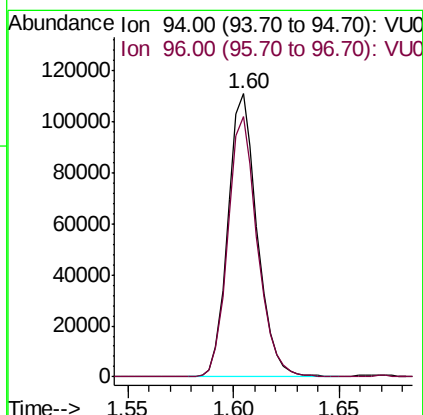
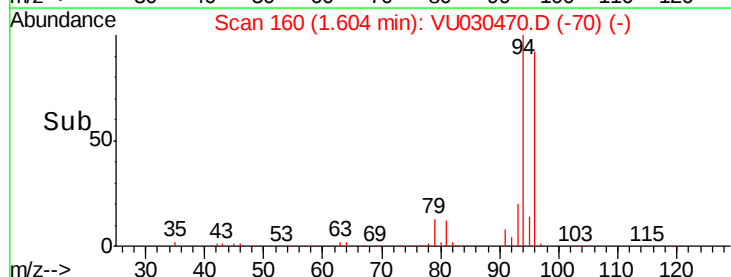
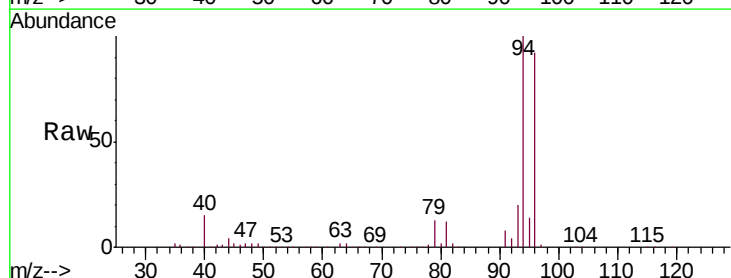
Acq: 27 Mar 2019 01:47

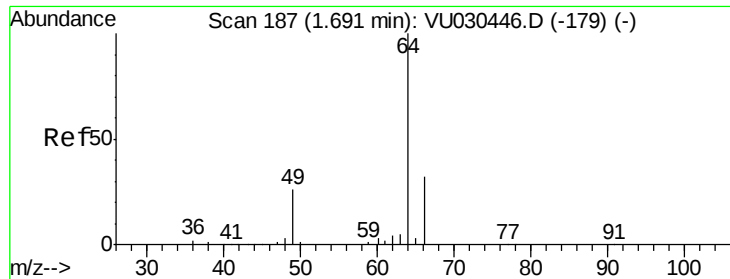
Tgt Ion: 94 Resp: 105889

Ion Ratio Lower Upper

94 100

96 92.2 64.8 120.3





#8

Chloroethane

Concen: 47.253 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

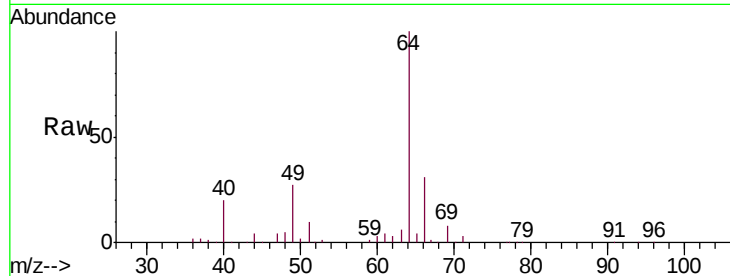
VSTD05034

Tgt Ion: 64 Resp: 136082

Ion Ratio Lower Upper

64 100

66 31.4 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU030446.D (-179) (-)

Ion 66.00 (65.70 to 66.70): VU030446.D (-179) (-)

1.68

120000

100000

80000

60000

40000

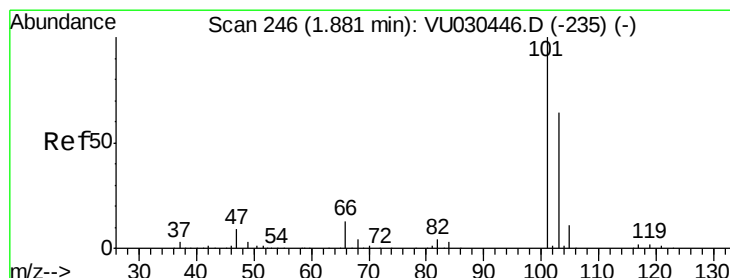
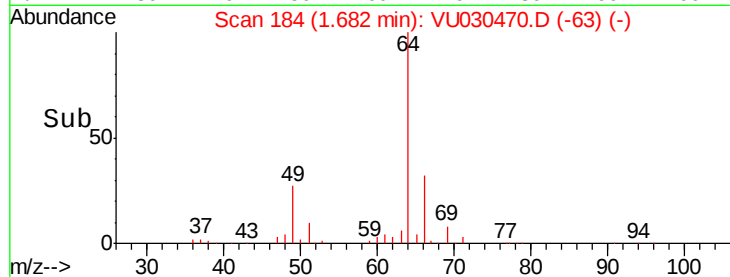
20000

0

1.65

1.70

Time-->



#9

Trichlorofluoromethane

Concen: 50.249 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.01 min

Lab File: VU030470.D

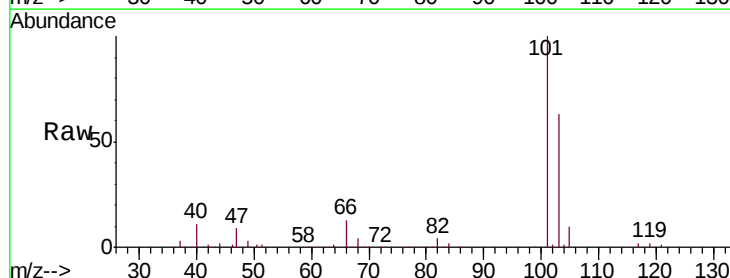
Acq: 27 Mar 2019 01:47

Tgt Ion: 101 Resp: 279521

Ion Ratio Lower Upper

101 100

103 64.0 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU030446.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU030446.D (-235) (-)

1.87

200000

150000

100000

50000

0

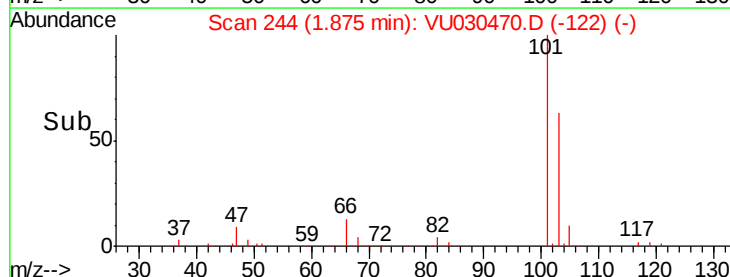
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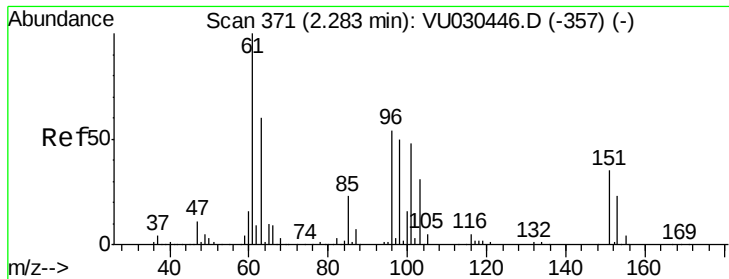
1.85

1.90

1.95

Time-->





#10

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

Concen: 47.331 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

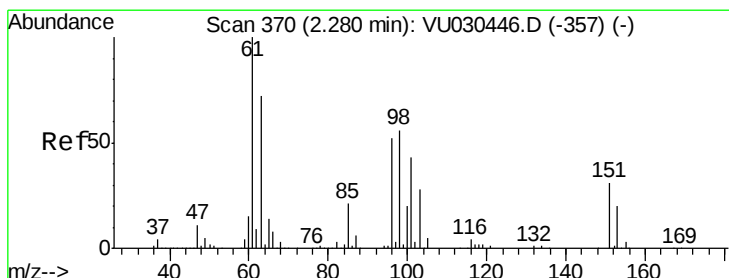
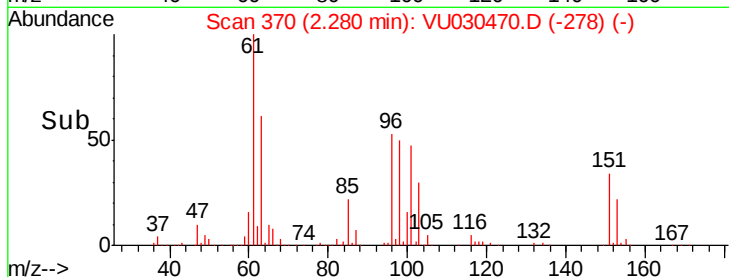
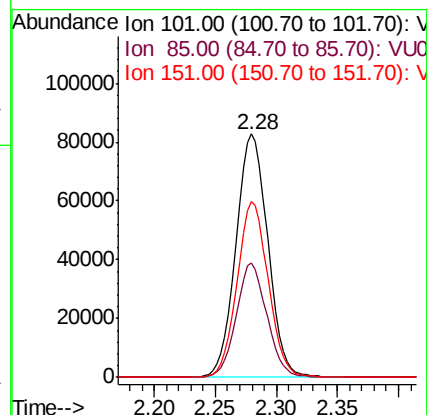
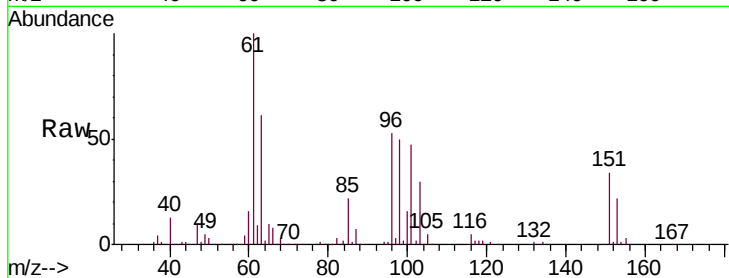
Tgt Ion: 101 Resp: 150590

Ion Ratio Lower Upper

101 100

85 44.9 34.8 52.2

151 70.5 56.6 85.0



#12

1,1-Dichloroethene

Concen: 48.260 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

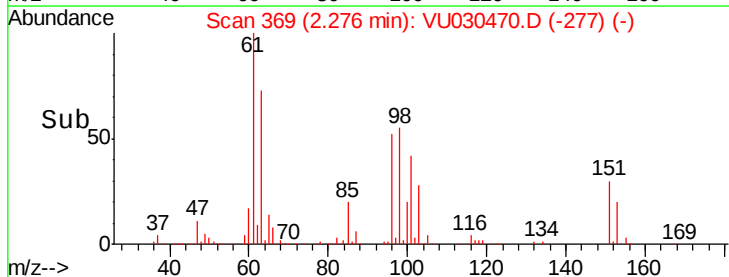
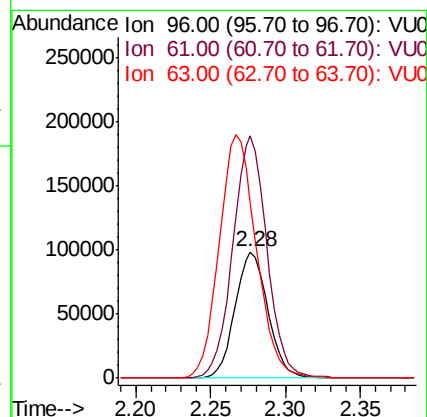
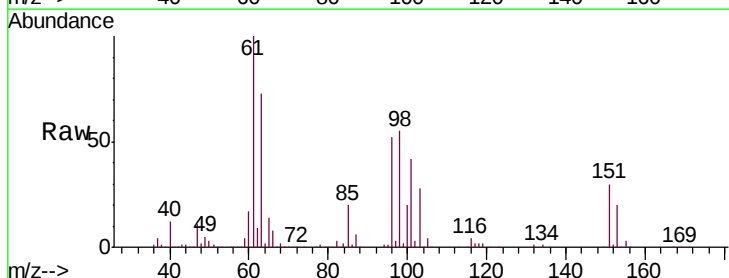
Tgt Ion: 96 Resp: 150523

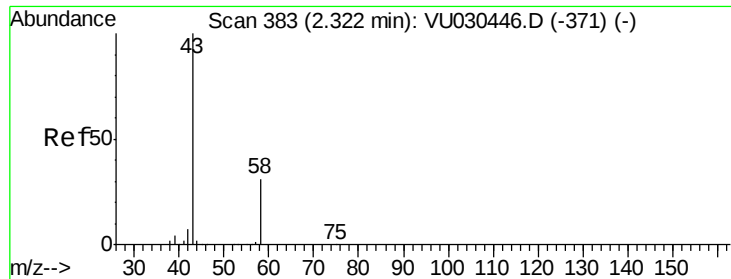
Ion Ratio Lower Upper

96 100

61 192.4 131.0 243.4

63 139.5 92.4 171.6





#13

Acetone

Concen: 71.418 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VU030470.D

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ClientSampleId :

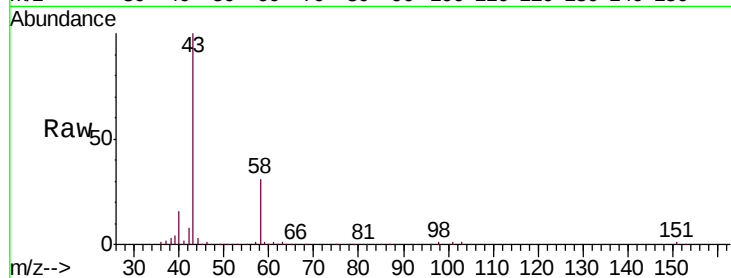
VSTD05034

Tgt Ion: 43 Resp: 238201

Ion Ratio Lower Upper

43 100

58 30.7 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030446.D (-371) (-)

Ion 58.00 (57.70 to 58.70): VU030446.D (-371) (-)

2.32

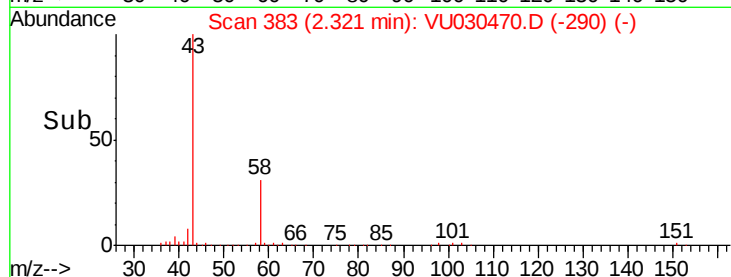
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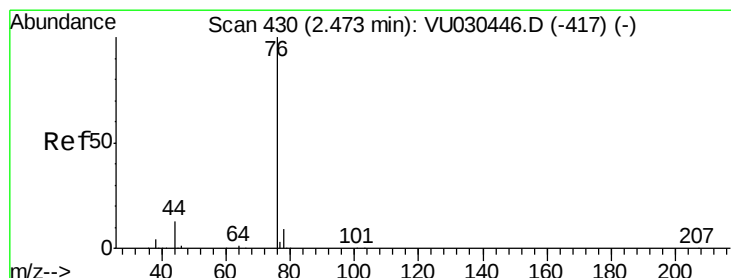
50000

0

Time-->



Time-->



#14

Carbon disulfide

Concen: 46.756 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU030470.D

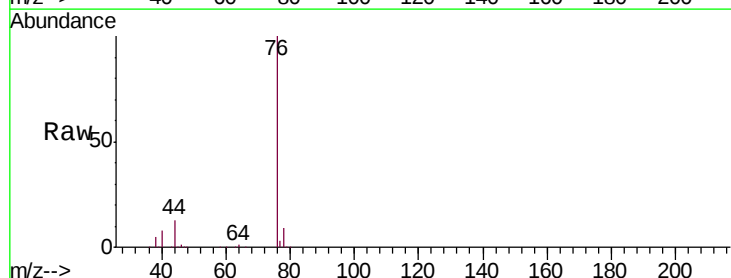
Acq: 27 Mar 2019 01:47

Tgt Ion: 76 Resp: 482180

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030446.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU030446.D (-417) (-)

2.47

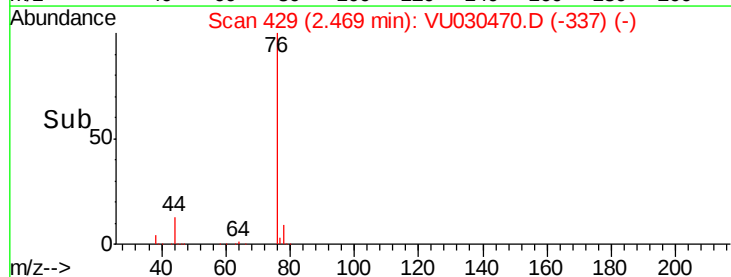
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200000

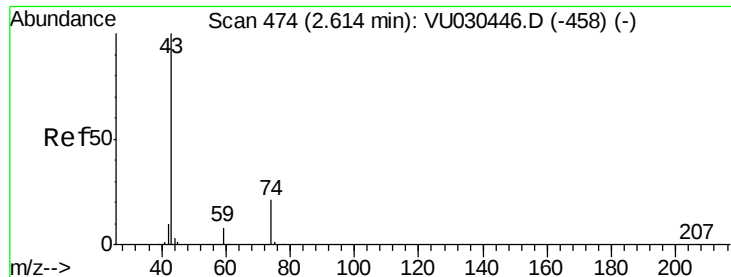
100000

0

Time-->



Time-->



#15

Methyl Acetate

Concen: 50.803 ug/L

RT: 2.61 min Scan# 474

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

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ClientSampleId :

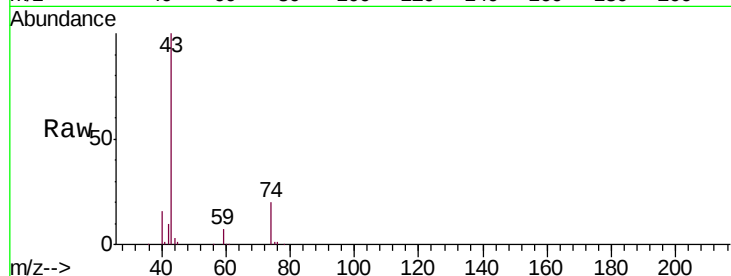
VSTD05034

Tgt Ion: 43 Resp: 259451

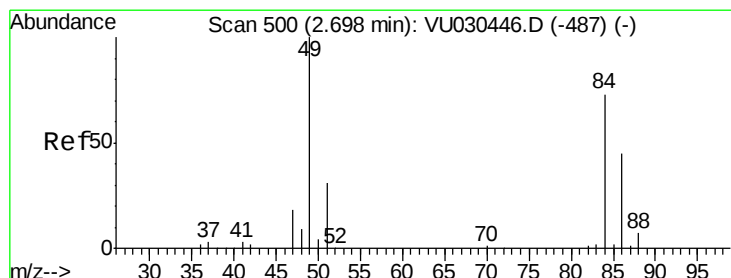
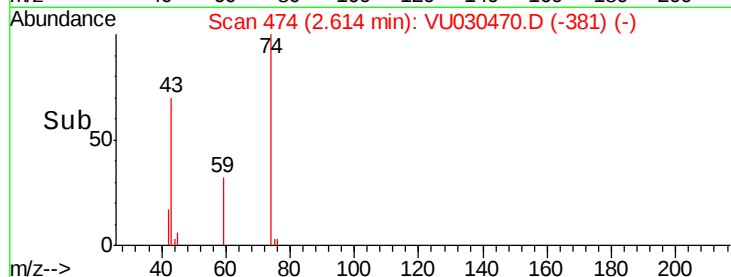
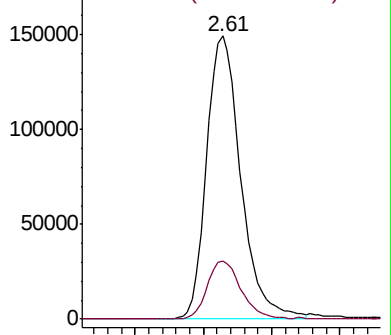
Ion Ratio Lower Upper

43 100

74 20.2 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VU030470.D (-381) (-)



#16

Methylene chloride

Concen: 49.664 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

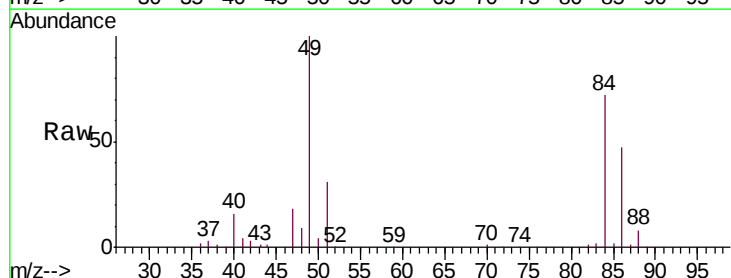
Tgt Ion: 84 Resp: 182608

Ion Ratio Lower Upper

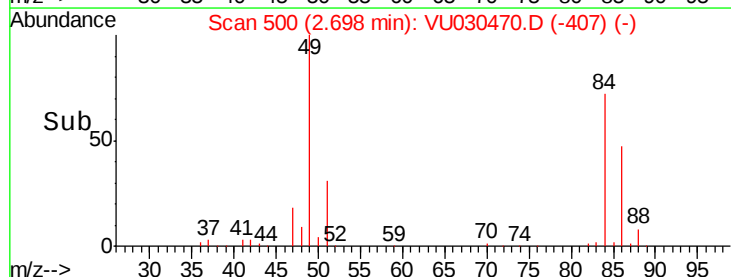
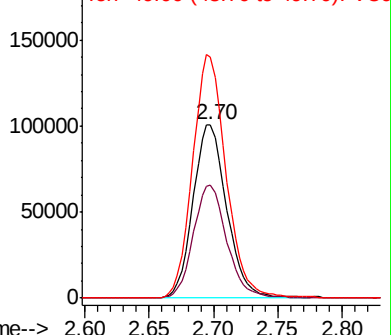
84 100

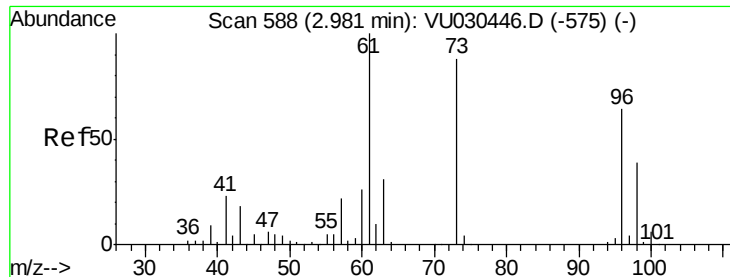
86 65.0 44.3 82.3

49 138.9 94.9 176.3



Abundance Ion 84.00 (83.70 to 84.70): VU030470.D (-407) (-)





#17

trans-1,2-Dichloroethene

Concen: 48.049 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

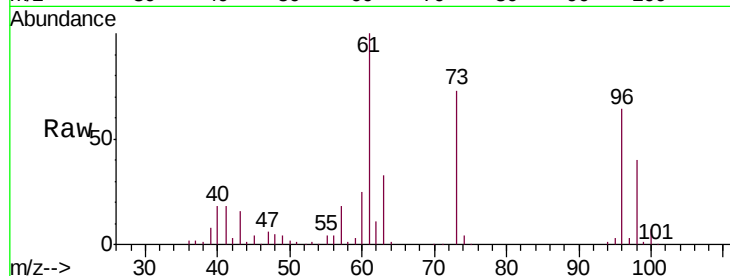
Tgt Ion: 96 Resp: 157228

Ion Ratio Lower Upper

96 100

61 156.3 108.6 201.8

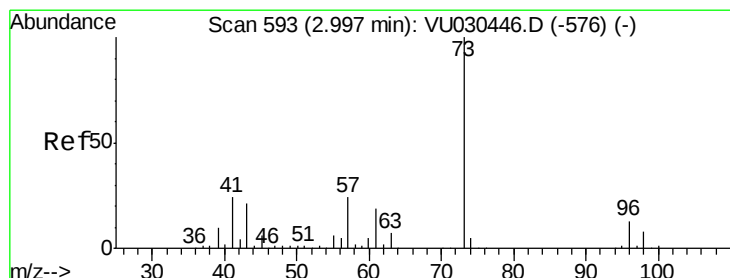
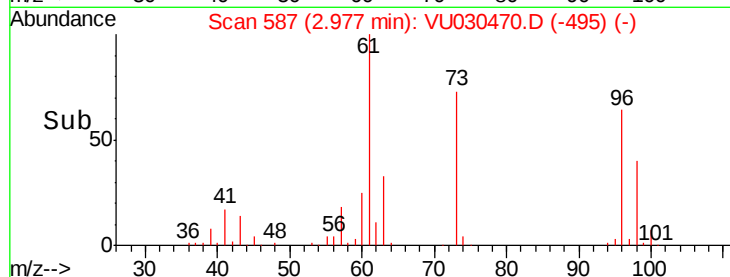
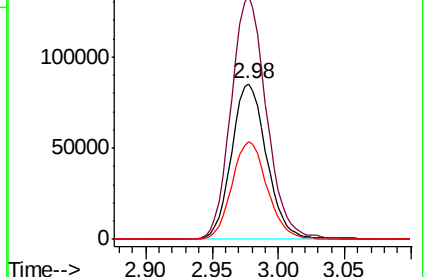
98 62.5 42.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VU030446.D (-575) (-)

Ion 61.00 (60.70 to 61.70): VU030446.D (-575) (-)

Ion 98.00 (97.70 to 98.70): VU030446.D (-575) (-)



#18

Methyl tert-butyl Ether

Concen: 51.492 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

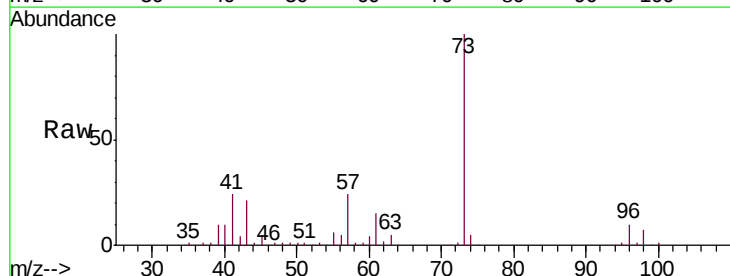
Tgt Ion: 73 Resp: 557207

Ion Ratio Lower Upper

73 100

43 21.1 16.6 24.8

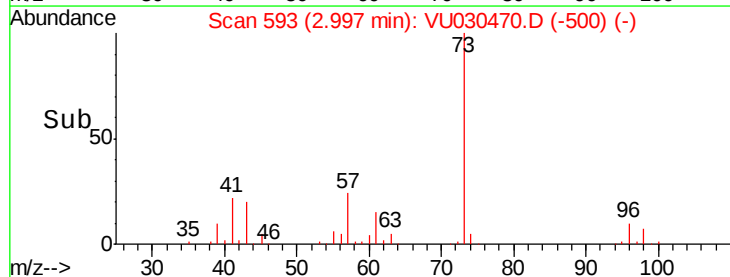
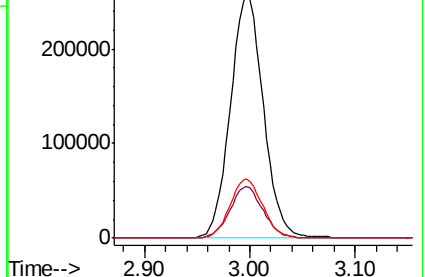
57 24.2 18.9 28.3

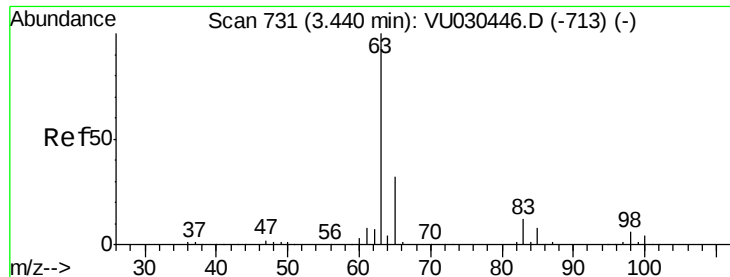


Abundance Ion 73.00 (72.70 to 73.70): VU030446.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030446.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030446.D (-576) (-)

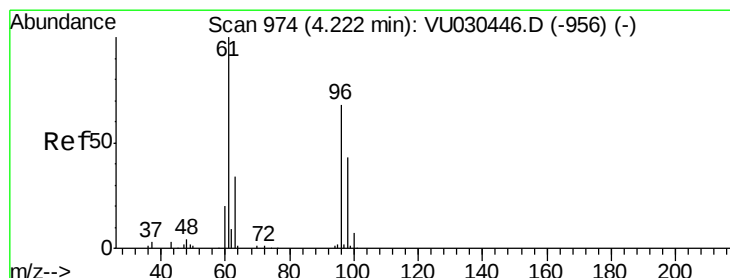
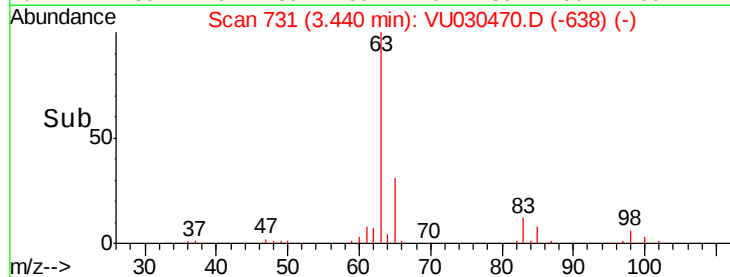
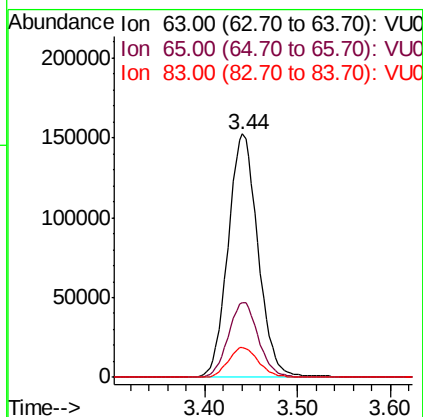
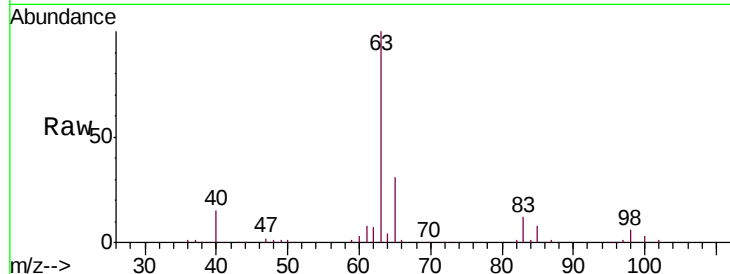




#19
 1,1-Dichloroethane
 Concen: 50.883 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

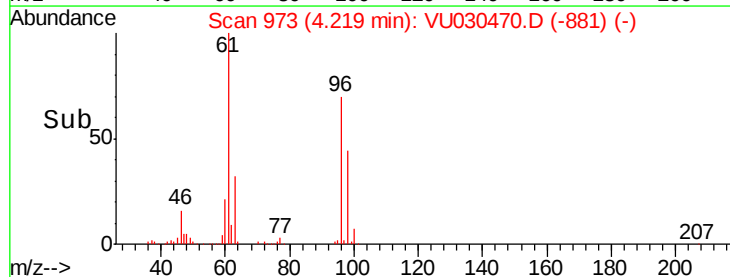
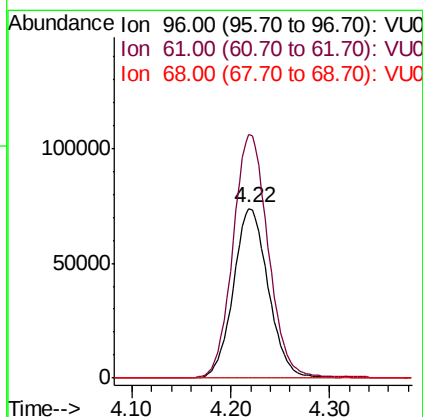
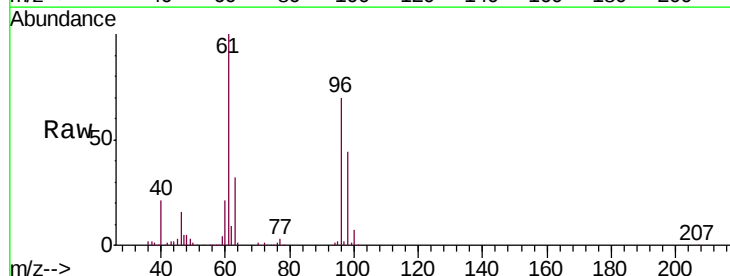
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

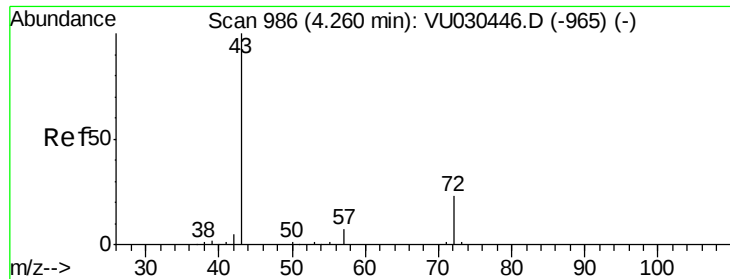
Tgt Ion: 63 Resp: 341597
 Ion Ratio Lower Upper
 63 100
 65 30.9 22.0 40.8
 83 12.2 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 49.477 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

Tgt Ion: 96 Resp: 181573
 Ion Ratio Lower Upper
 96 100
 61 143.3 98.4 182.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 94.017 ug/L

RT: 4.26 min Scan# 986

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

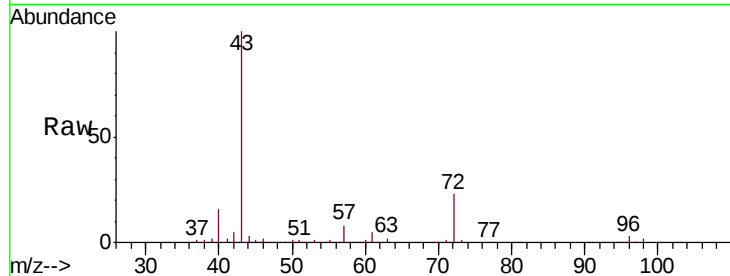
VSTD05034

Tgt Ion: 43 Resp: 379023

Ion Ratio Lower Upper

43 100

72 23.9 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU030446.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU030446.D (-965) (-)

4.26

150000

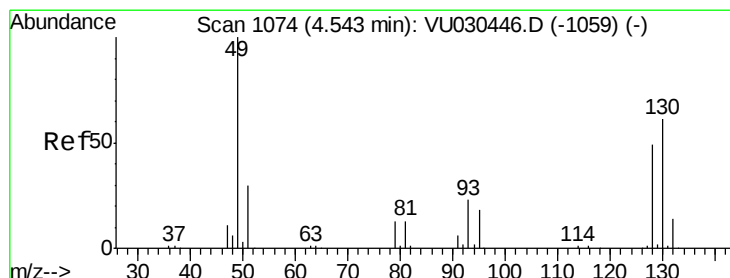
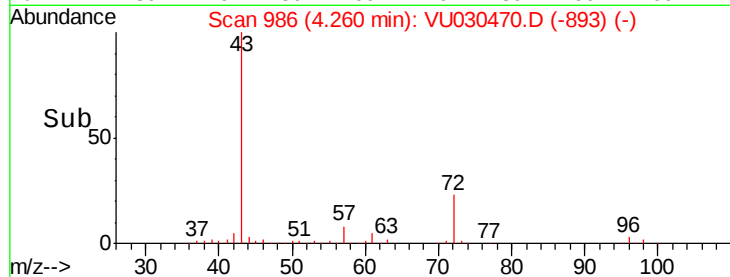
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 50.355 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Tgt Ion: 128 Resp: 85892

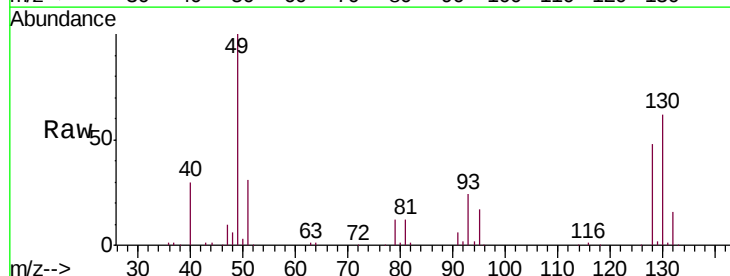
Ion Ratio Lower Upper

128 100

49 209.6 145.5 270.3

130 129.2 95.3 177.1

51 64.9 52.2 78.2



Abundance Ion 128.00 (127.70 to 128.70): VU030446.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030446.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030446.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030446.D (-1059) (-)

120000

100000

80000

60000

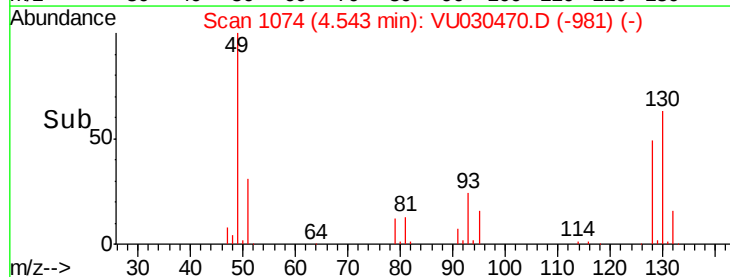
40000

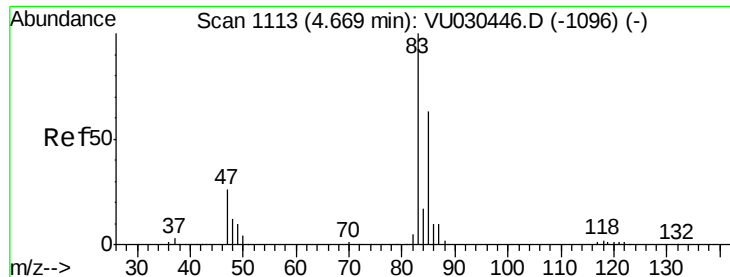
20000

0

4.50 4.54 4.60

Time-->

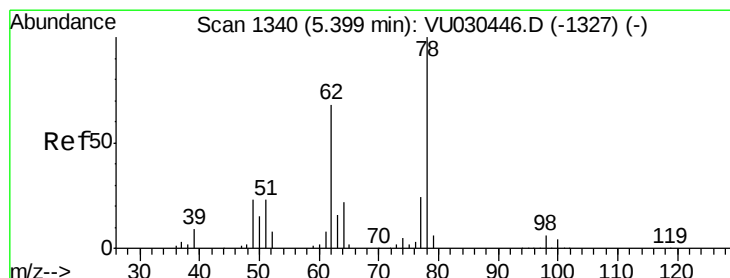
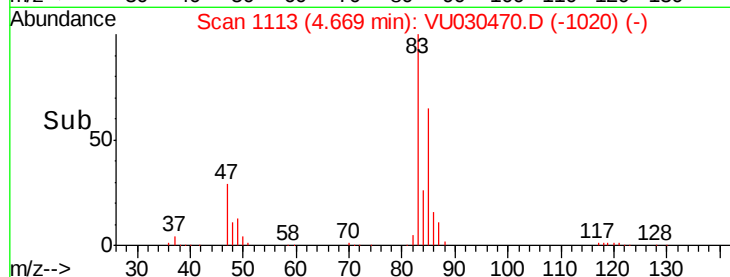
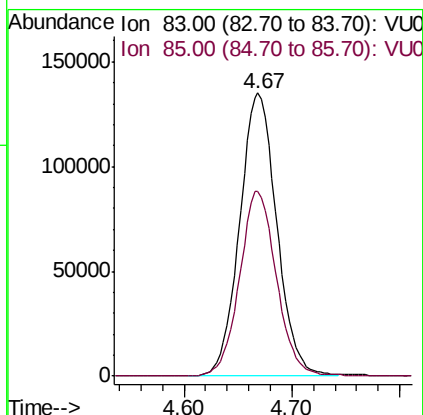
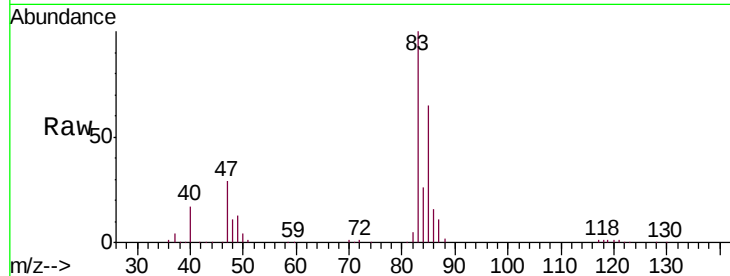




#25
Chloroform
Concen: 50.587 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU030470.D
Acq: 27 Mar 2019 01:47

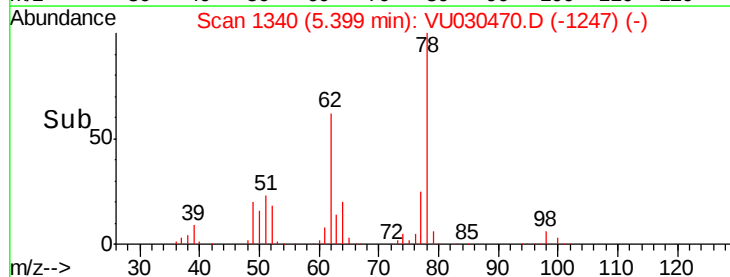
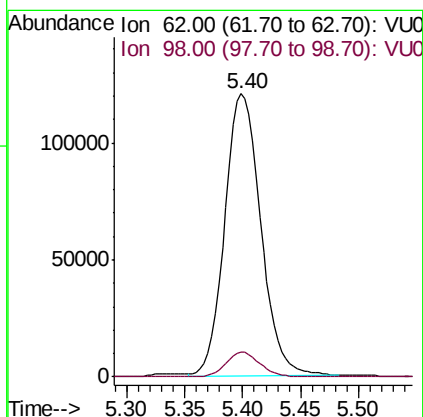
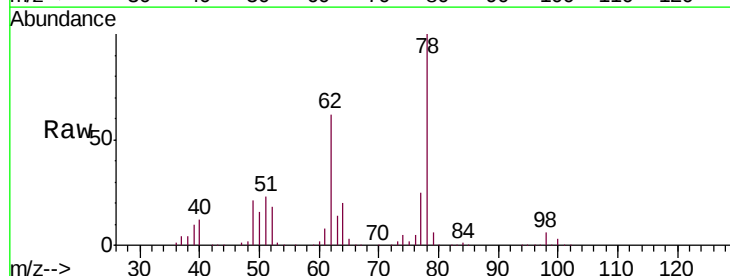
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

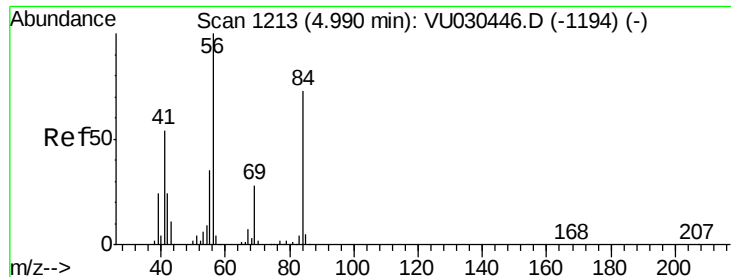
Tgt Ion: 83 Resp: 322898
Ion Ratio Lower Upper
83 100
85 65.4 44.4 82.4



#27
1,2-Dichloroethane
Concen: 51.875 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU030470.D
Acq: 27 Mar 2019 01:47

Tgt Ion: 62 Resp: 259825
Ion Ratio Lower Upper
62 100
98 8.9 7.2 10.8

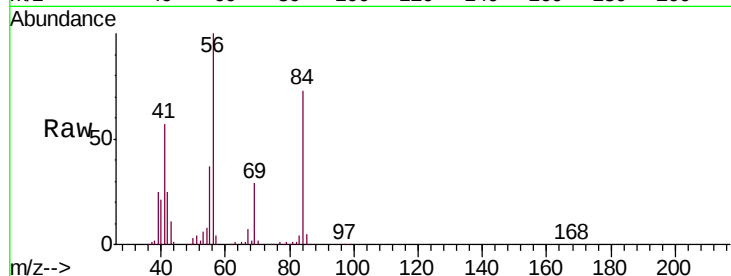




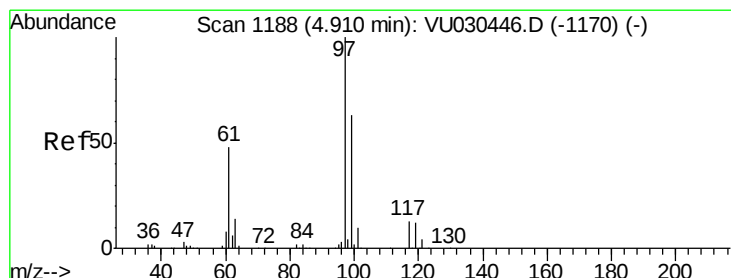
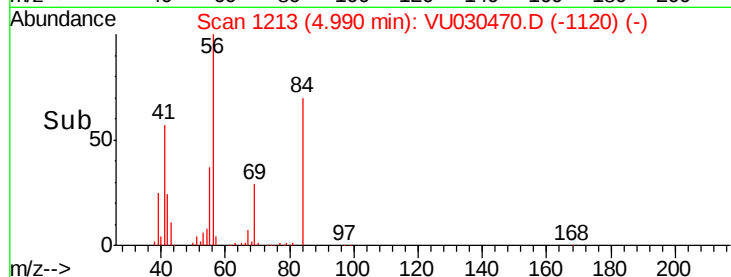
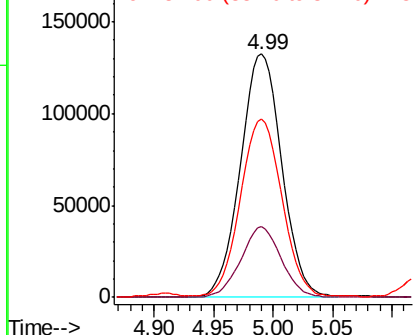
#29
Cyclohexane
Concen: 51.236 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU030470.D
Acq: 27 Mar 2019 01:47

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Tgt Ion: 56 Resp: 319970
Ion Ratio Lower Upper
56 100
69 28.2 22.9 34.3
84 72.7 58.9 88.3

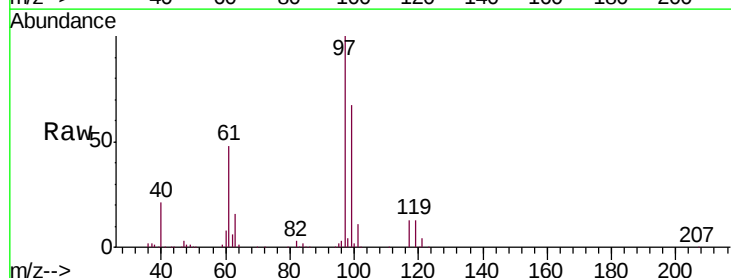


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

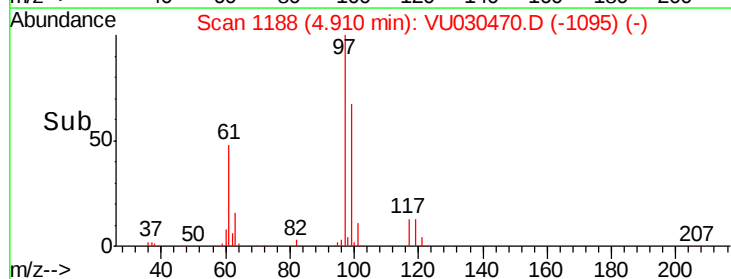
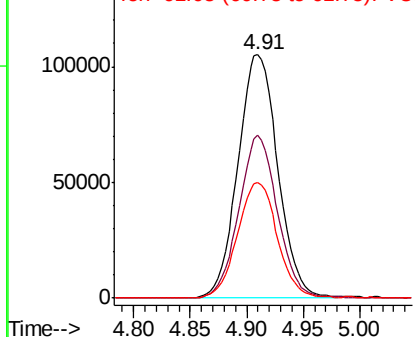


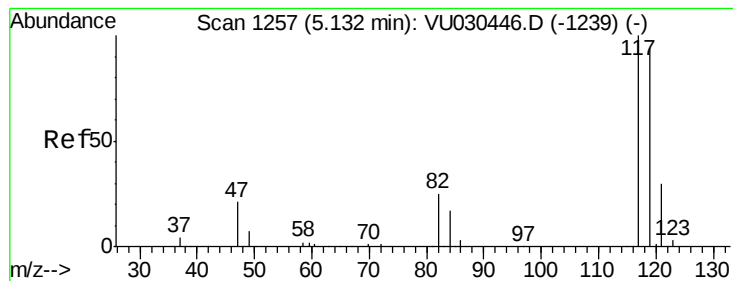
#30
1,1,1-Trichloroethane
Concen: 51.147 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU030470.D
Acq: 27 Mar 2019 01:47

Tgt Ion: 97 Resp: 258445
Ion Ratio Lower Upper
97 100
99 64.5 51.8 77.6
61 47.4 38.2 57.4



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





#31

Carbon tetrachloride

Concen: 52.536 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

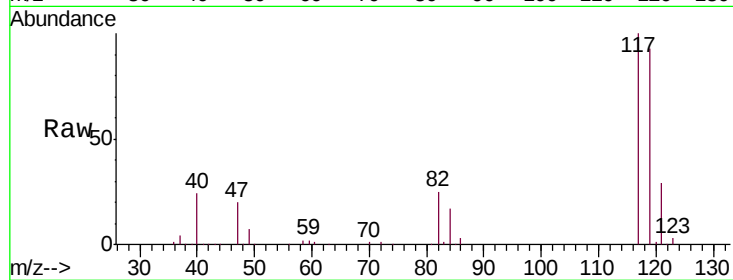
VSTD05034

Tgt Ion:117 Resp: 225007

Ion Ratio Lower Upper

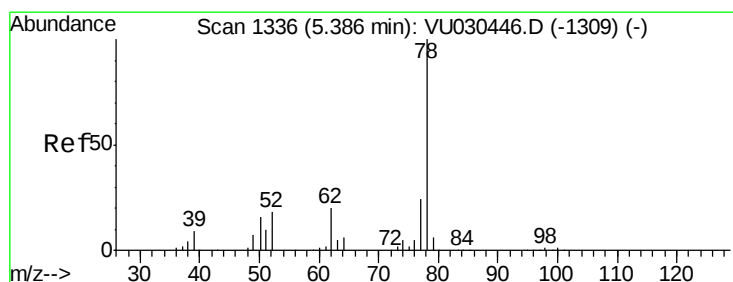
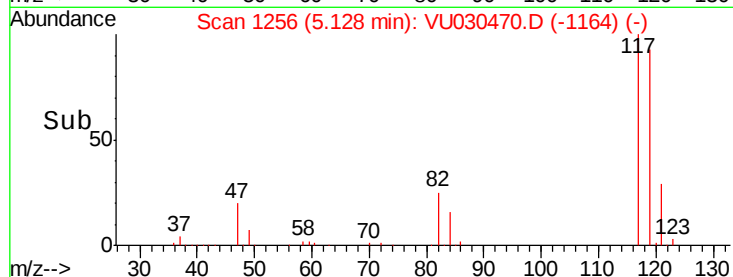
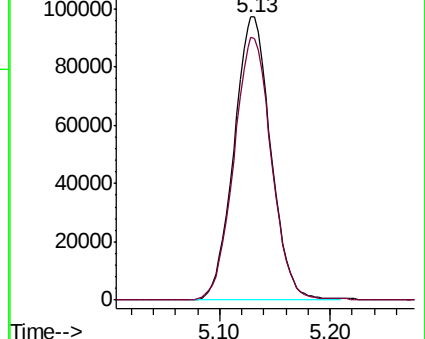
117 100

119 94.2 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.137 ug/L

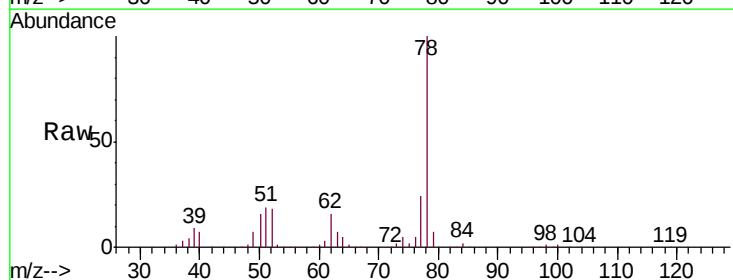
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU030470.D

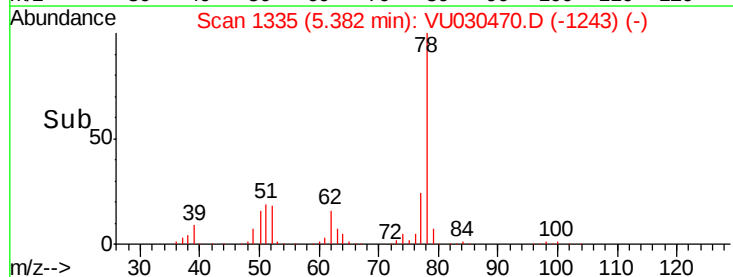
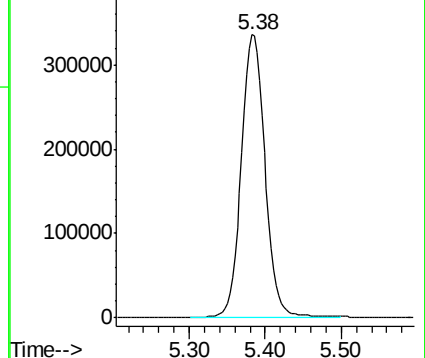
Acq: 27 Mar 2019 01:47

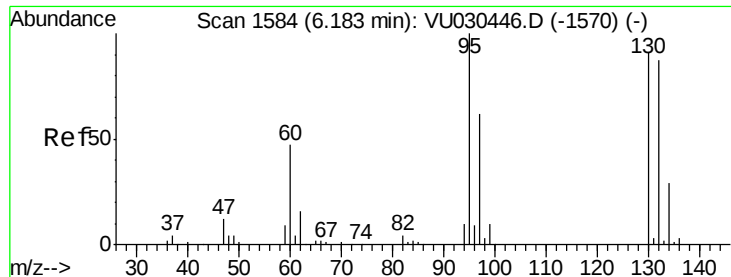
Tgt Ion: 78 Resp: 732413



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 79.00 (78.70 to 79.70): VU0





#34

Trichloroethene

Concen: 49.545 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

Tgt Ion: 95 Resp: 171097

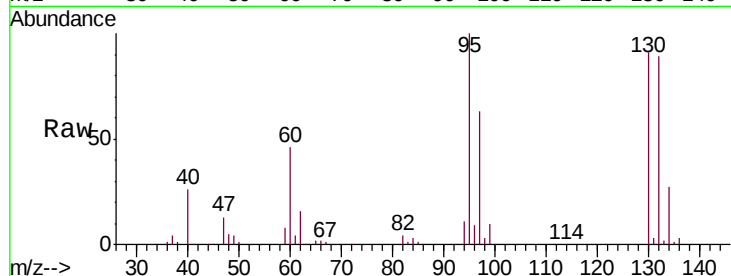
Ion Ratio Lower Upper

95 100

97 63.1 45.7 84.9

132 89.2 63.8 118.4

130 90.5 65.7 121.9

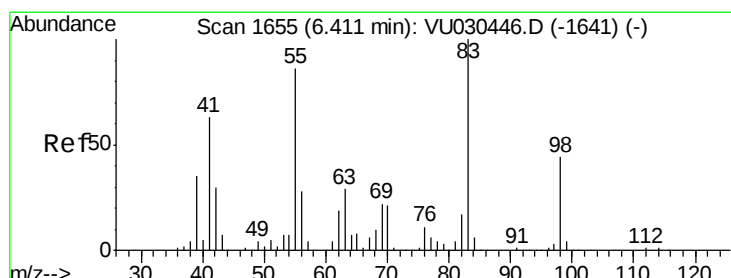
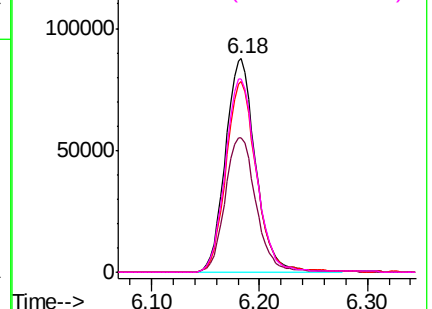
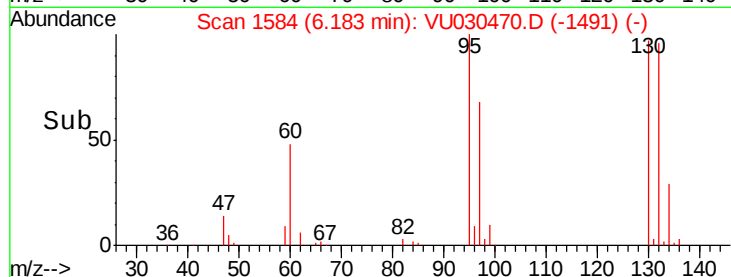


Abundance Ion 95.00 (94.70 to 95.70): VU030470.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU030470.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU030470.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU030470.D (-1570) (-)



#35

Methylcyclohexane

Concen: 48.640 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

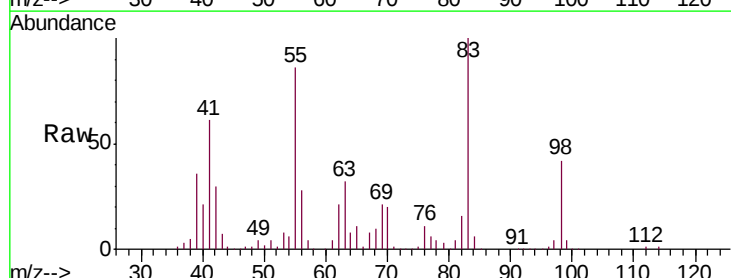
Tgt Ion: 83 Resp: 276411

Ion Ratio Lower Upper

83 100

55 88.5 71.4 107.0

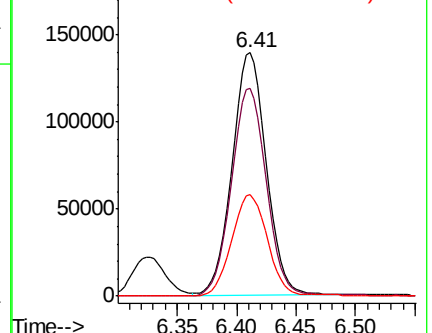
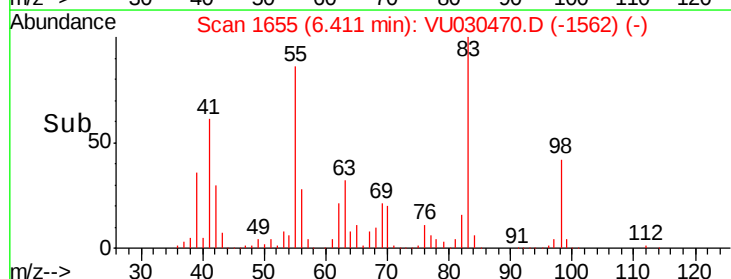
98 43.8 36.0 54.0

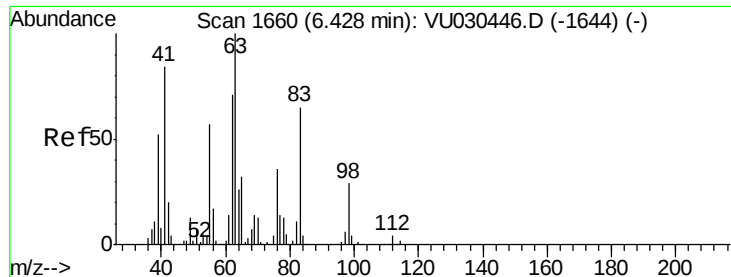


Abundance Ion 83.00 (82.70 to 83.70): VU030470.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU030470.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU030470.D (-1641) (-)

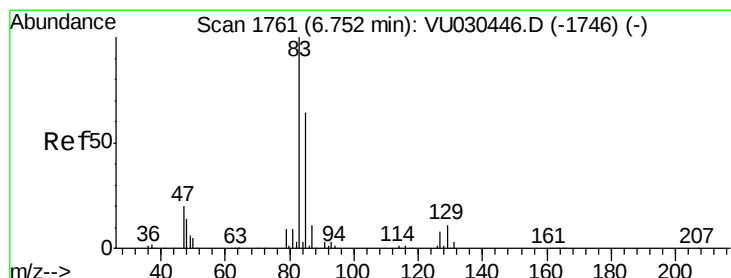
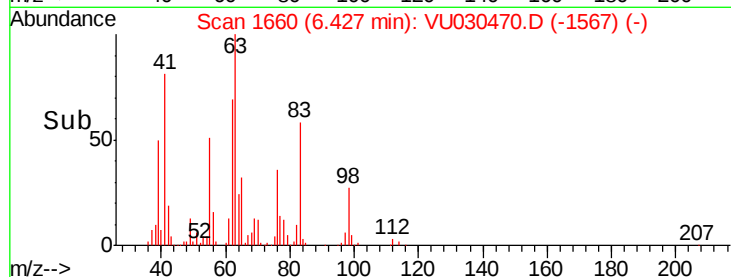
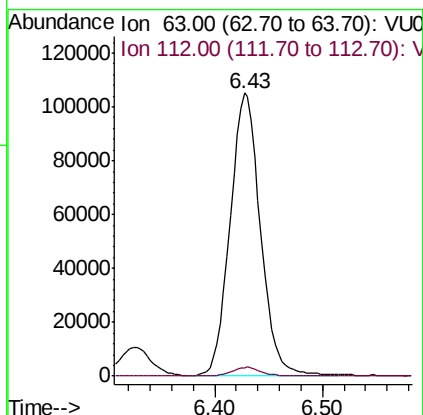
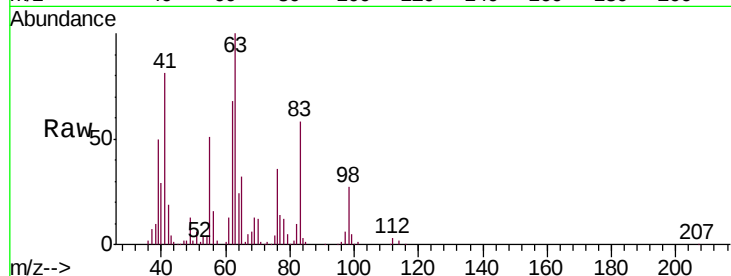




#37
 1,2-Dichloropropane
 Concen: 51.538 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

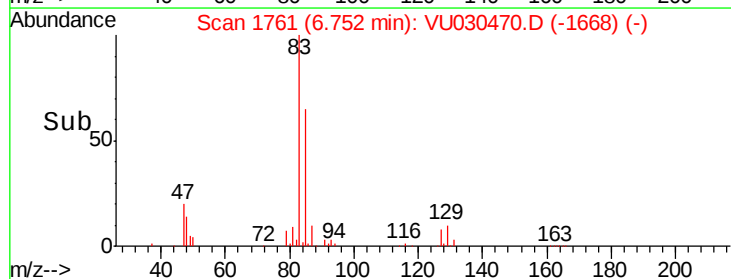
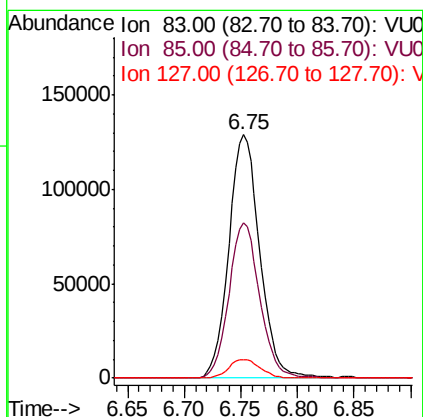
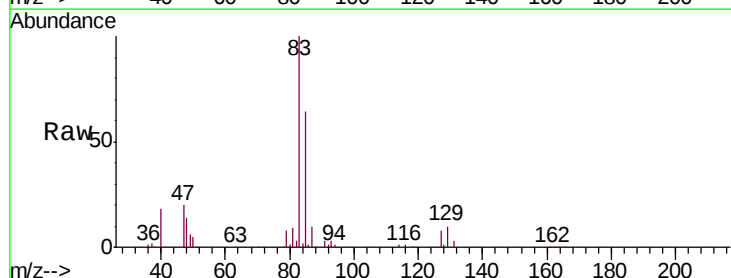
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

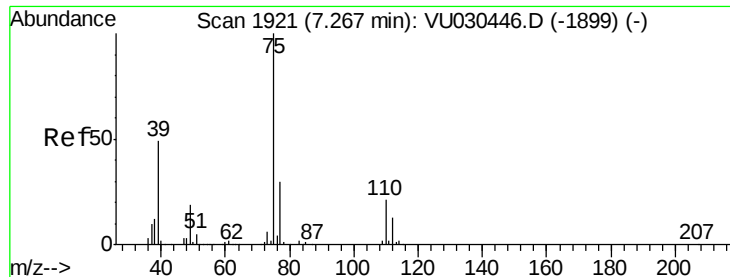
Tgt Ion: 63 Resp: 205461
 Ion Ratio Lower Upper
 63 100
 112 3.1 2.6 4.0



#38
 Bromodichloromethane
 Concen: 51.701 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

Tgt Ion: 83 Resp: 244903
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.0 83.6
 127 7.7 6.6 10.0

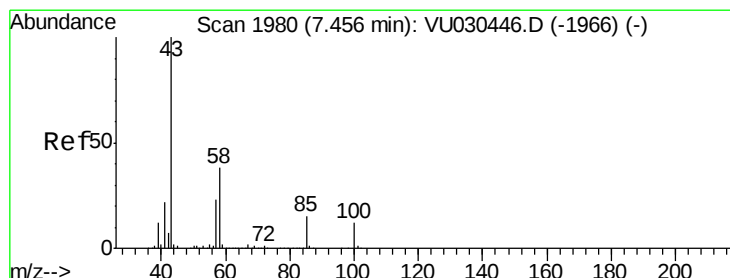
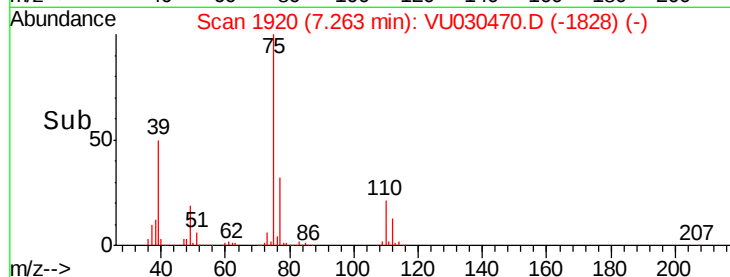
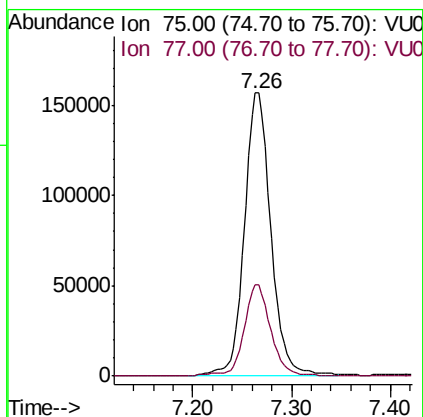
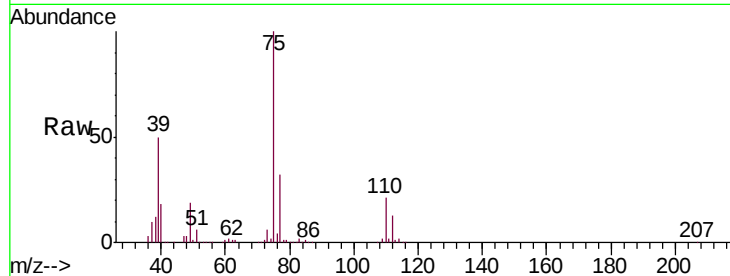




#39
 cis-1,3-Dichloropropene
 Concen: 50.782 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

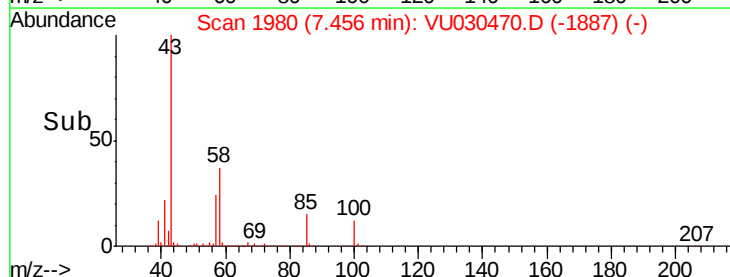
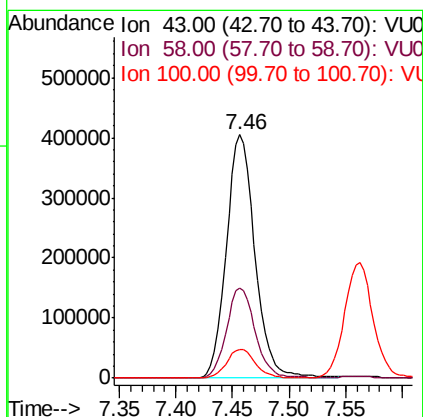
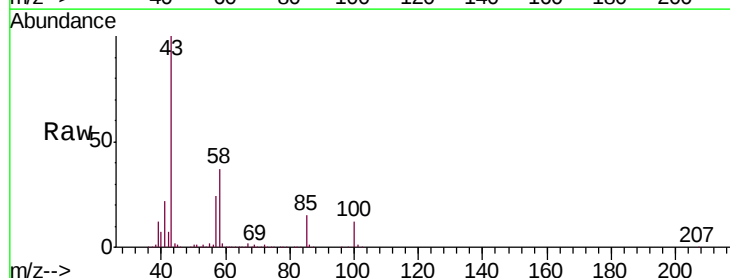
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

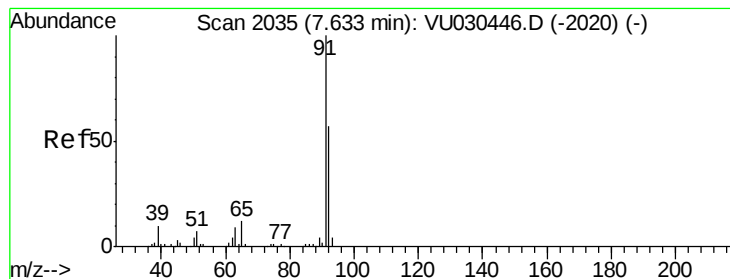
Tgt Ion: 75 Resp: 290989
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 106.607 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

Tgt Ion: 43 Resp: 713875
 Ion Ratio Lower Upper
 43 100
 58 37.2 30.6 45.8
 100 11.9 9.5 14.3





#42

Toluene

Concen: 52.127 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

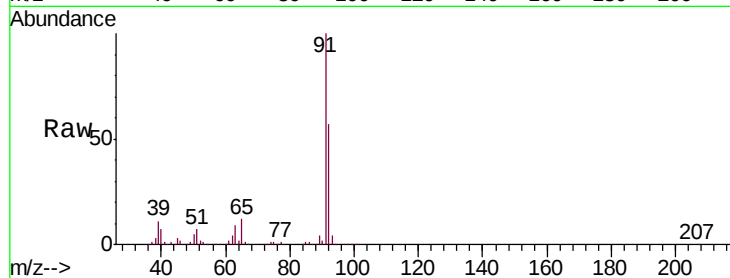
VSTD05034

Tgt Ion: 91 Resp: 759975

Ion Ratio Lower Upper

91 100

92 56.7 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU030470.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU030470.D (-1942) (-)

7.63

400000

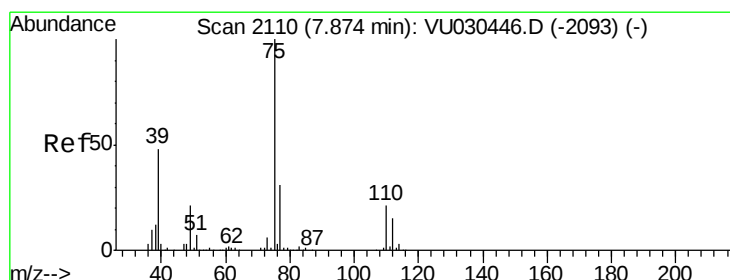
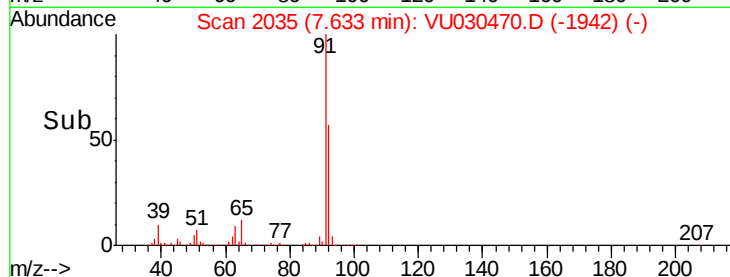
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.563 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU030470.D

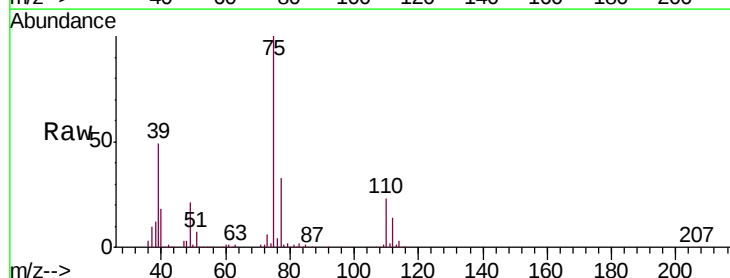
Acq: 27 Mar 2019 01:47

Tgt Ion: 75 Resp: 254937

Ion Ratio Lower Upper

75 100

77 32.6 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU030470.D (-2017) (-)

Ion 77.00 (76.70 to 77.70): VU030470.D (-2017) (-)

7.87

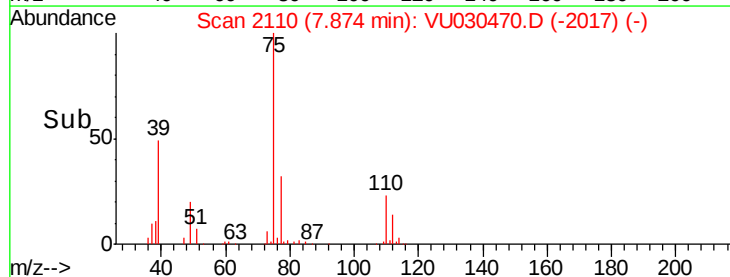
150000

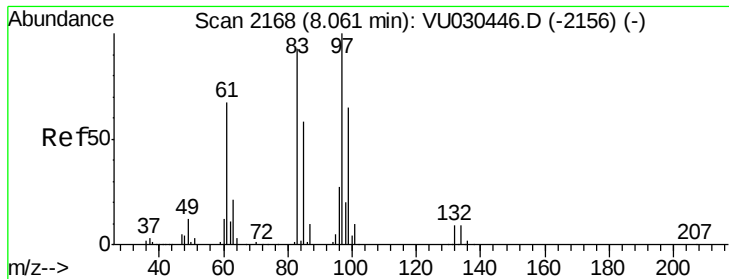
100000

50000

0

Time-->

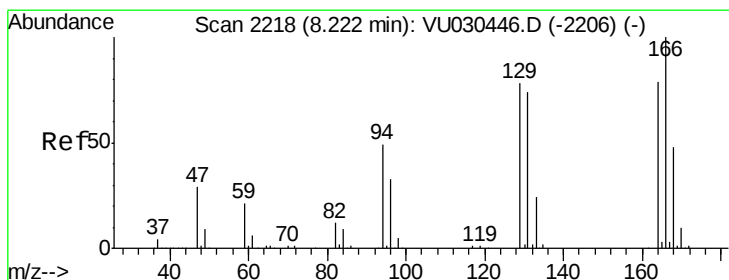
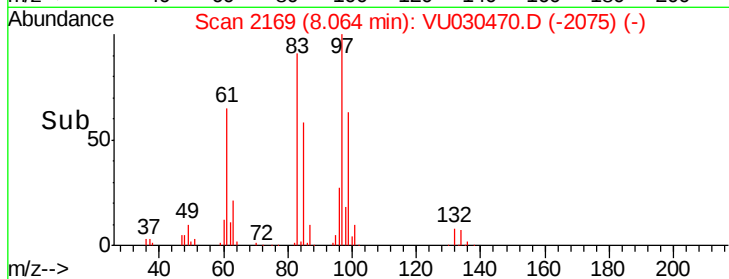
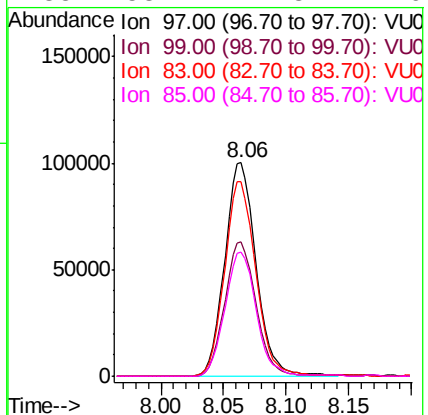
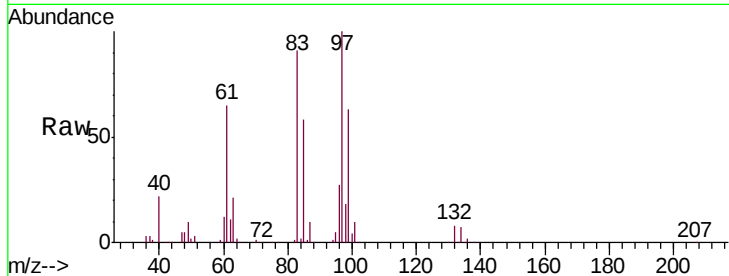




#45
 1,1,2-Trichloroethane
 Concen: 51.571 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

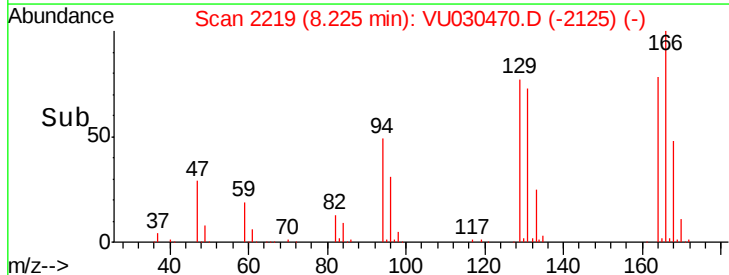
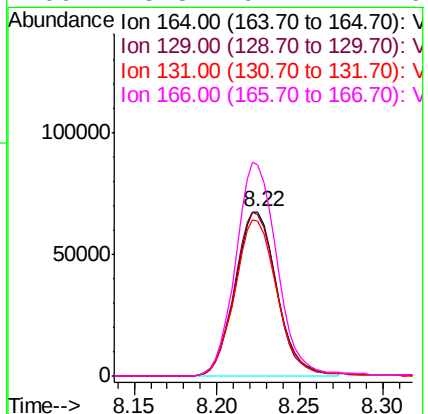
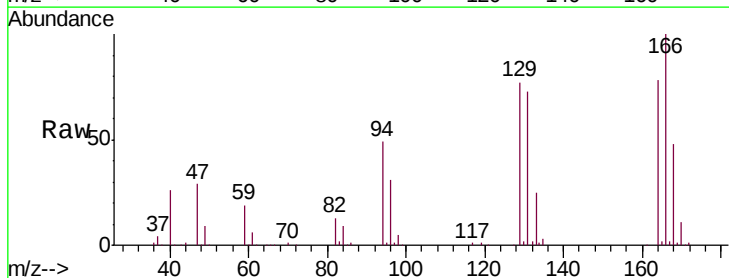
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

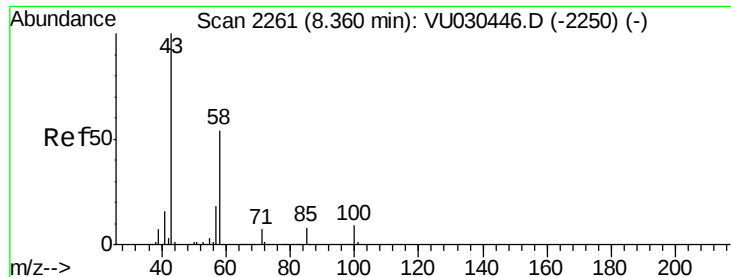
Tgt Ion:	97	Resp:	173712
Ion	Ratio	Lower	Upper
97	100		
99	63.0	44.0	81.8
83	90.9	65.3	121.3
85	58.4	41.8	77.6



#46
 Tetrachloroethene
 Concen: 48.821 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

Tgt Ion:	164	Resp:	117759
Ion	Ratio	Lower	Upper
164	100		
129	98.4	68.1	126.5
131	94.0	67.7	125.7
166	128.3	92.4	171.6

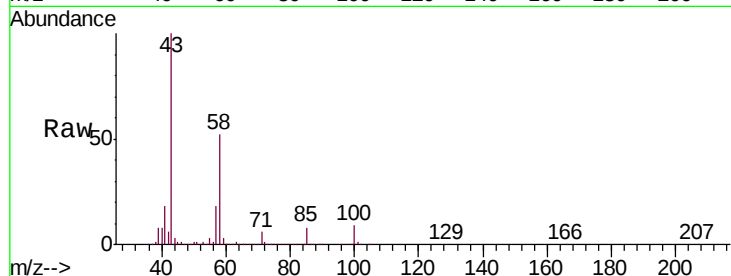




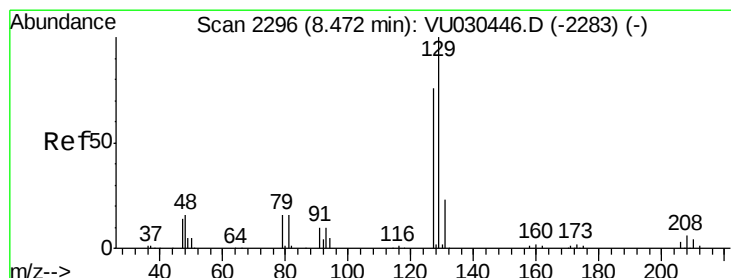
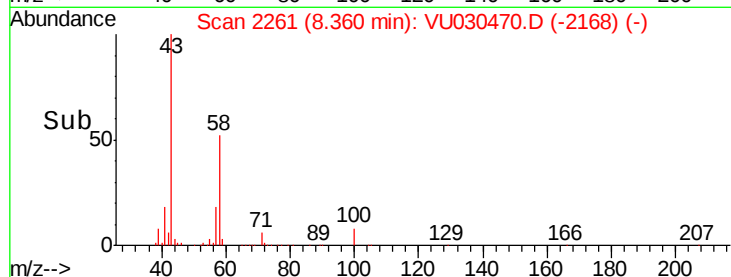
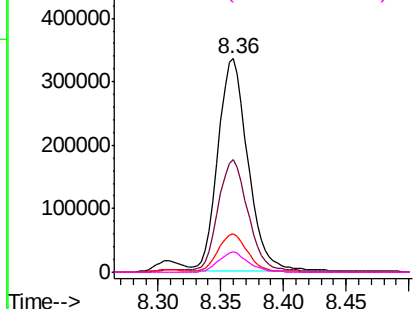
#48
2-Hexanone
Concen: 101.892 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU030470.D
Acq: 27 Mar 2019 01:47

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Tgt Ion: 43 Resp: 559206
Ion Ratio Lower Upper
43 100
58 53.1 42.5 63.7
57 18.4 15.0 22.6
100 9.5 7.4 11.2

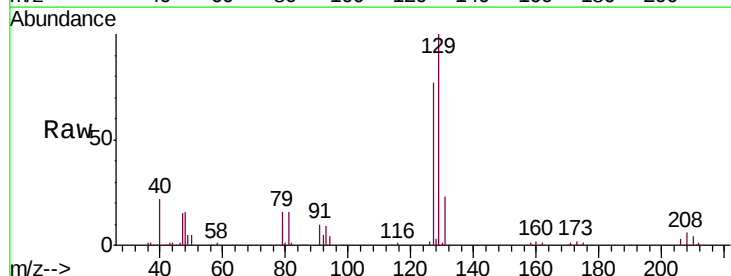


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

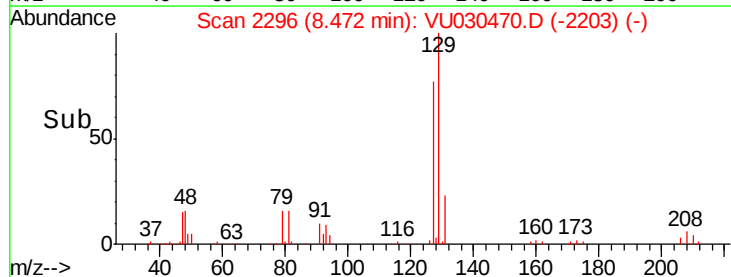
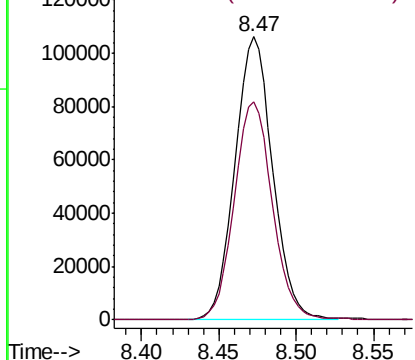


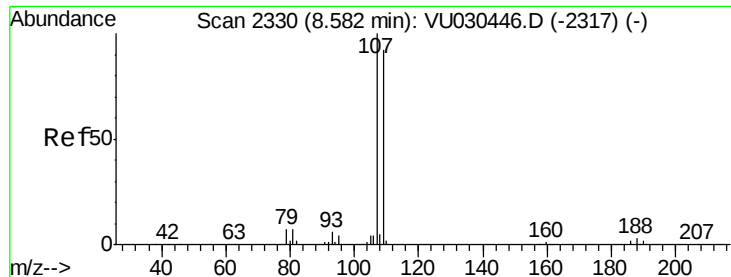
#49
Dibromochloromethane
Concen: 51.349 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030470.D
Acq: 27 Mar 2019 01:47

Tgt Ion: 129 Resp: 179723
Ion Ratio Lower Upper
129 100
127 76.9 53.2 98.8



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 50.894 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

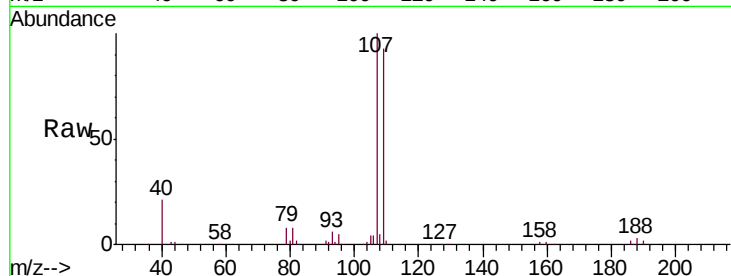
Tgt Ion:107 Resp: 183984

Ion Ratio Lower Upper

107 100

109 92.8 65.8 122.2

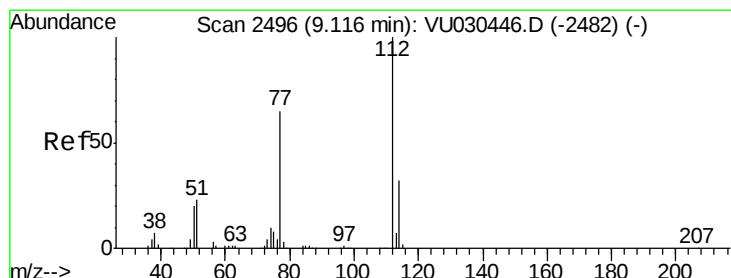
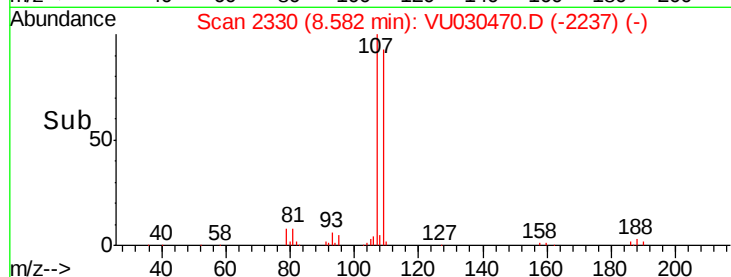
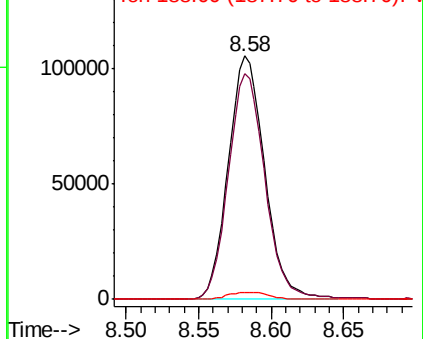
188 2.8 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 50.574 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

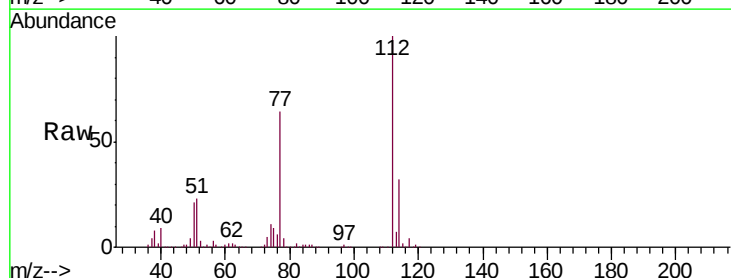
Tgt Ion:112 Resp: 446869

Ion Ratio Lower Upper

112 100

114 31.6 21.5 39.9

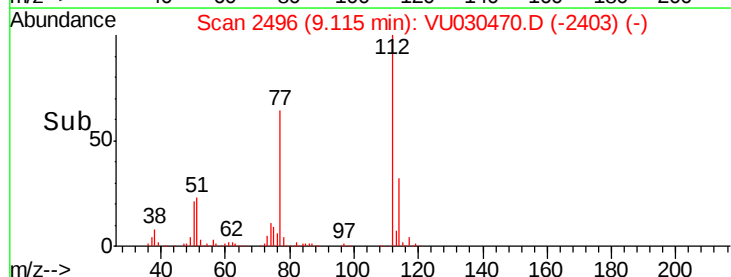
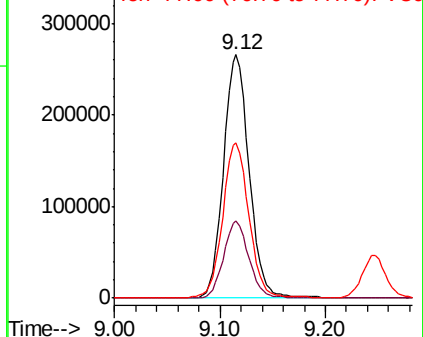
77 63.8 51.4 77.0

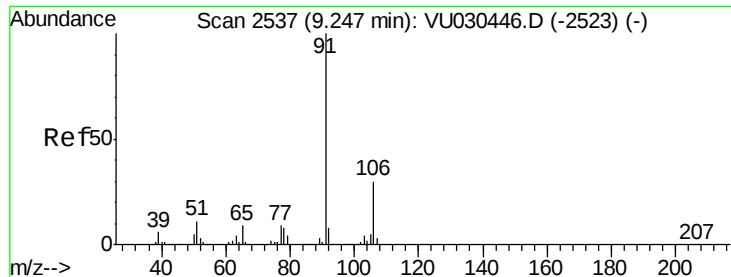


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 51.838 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

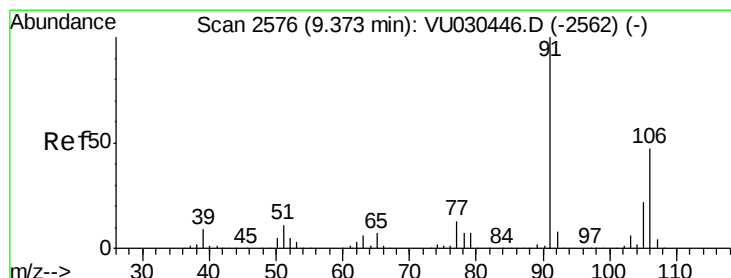
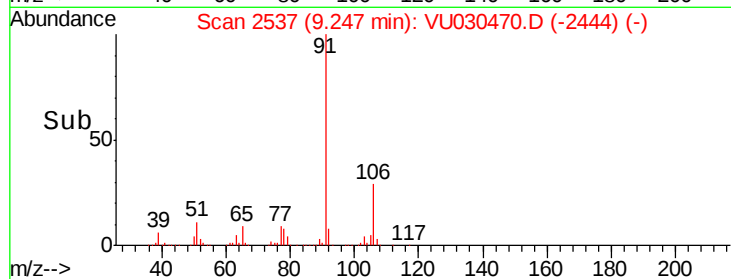
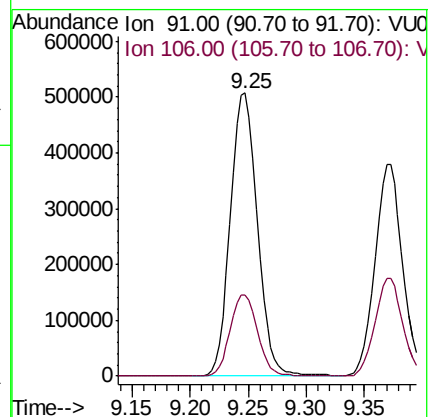
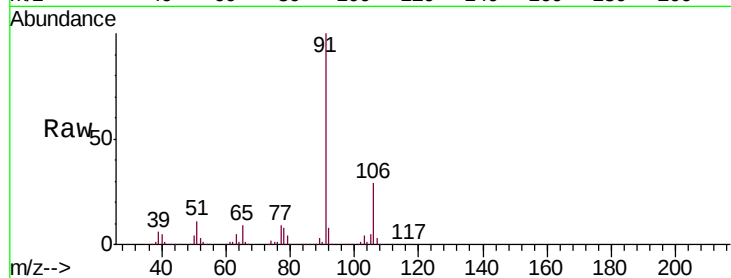
VSTD05034

Tgt Ion: 91 Resp: 818698

Ion Ratio Lower Upper

91 100

106 28.8 20.6 38.2



#53

m,p-Xylene

Concen: 51.988 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030470.D

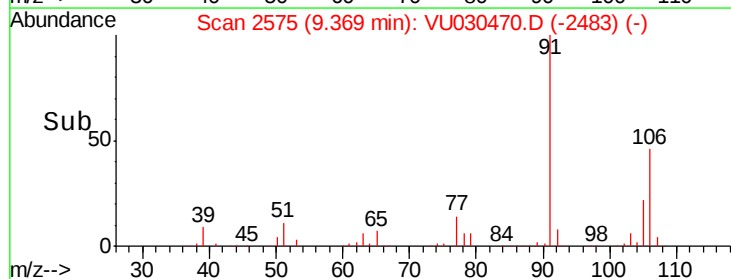
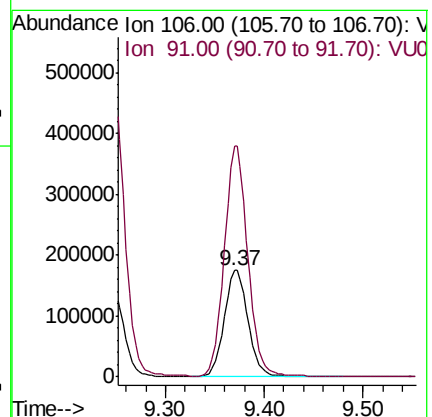
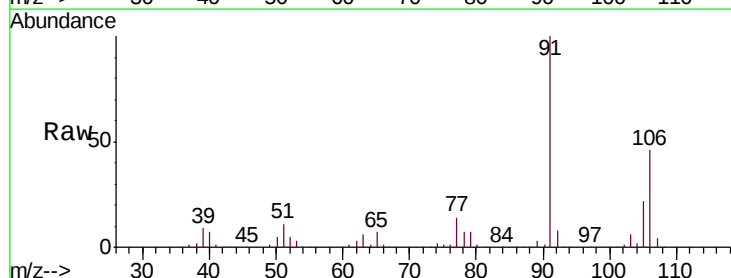
Acq: 27 Mar 2019 01:47

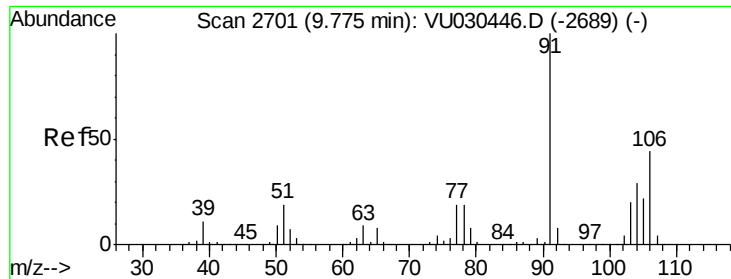
Tgt Ion: 106 Resp: 296464

Ion Ratio Lower Upper

106 100

91 216.1 151.2 280.8





#54

o-xylene

Concen: 53.432 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

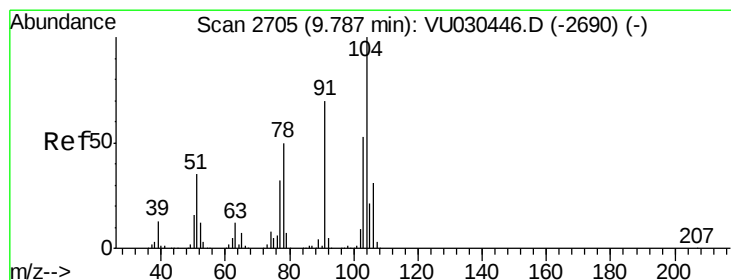
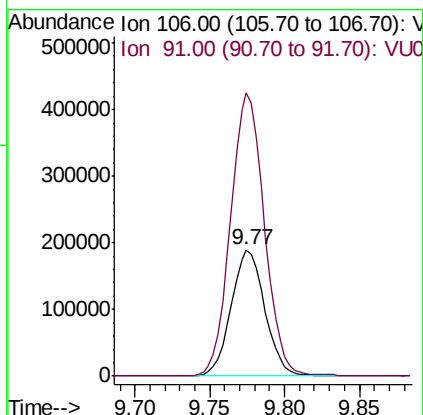
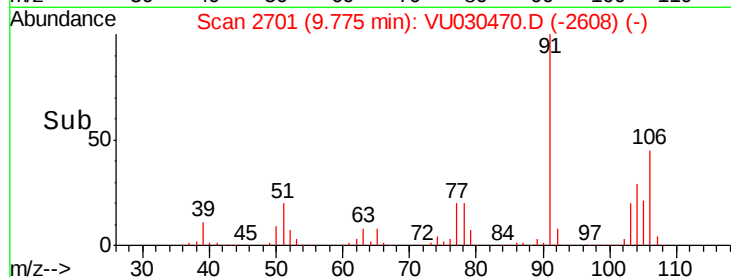
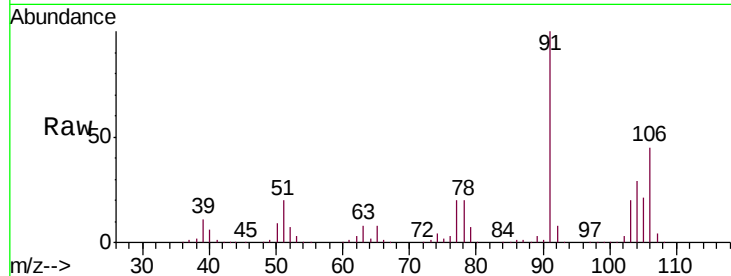
VSTD05034

Tgt Ion:106 Resp: 297306

Ion Ratio Lower Upper

106 100

91 224.6 159.6 296.4



#55

Styrene

Concen: 52.449 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU030470.D

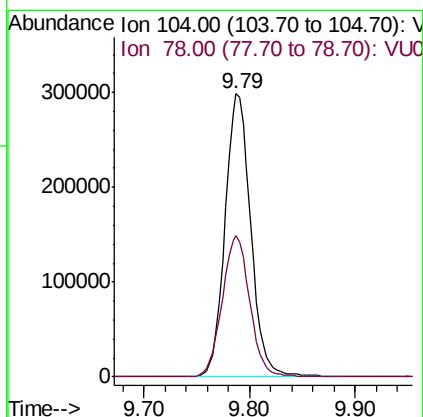
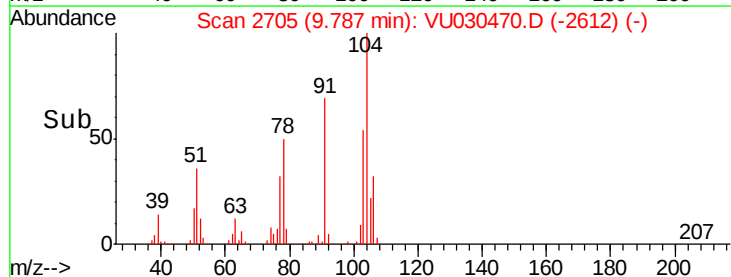
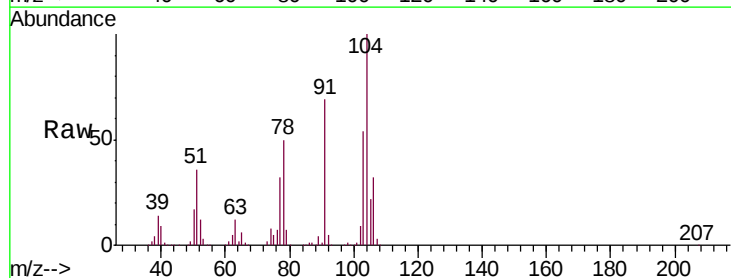
Acq: 27 Mar 2019 01:47

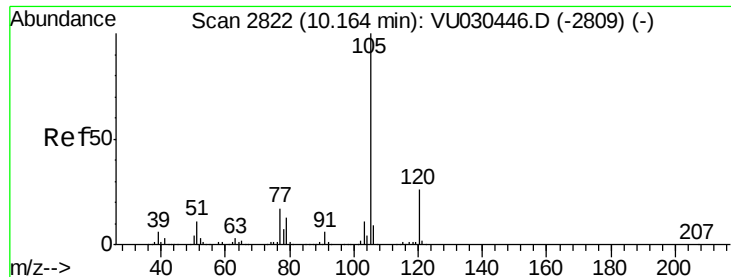
Tgt Ion:104 Resp: 502711

Ion Ratio Lower Upper

104 100

78 49.9 35.1 65.3





#56

Isopropylbenzene

Concen: 52.083 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

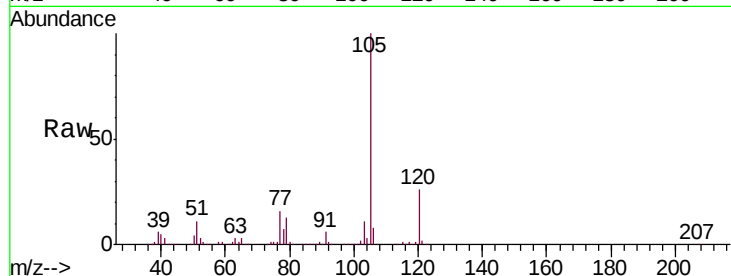
Tgt Ion: 105 Resp: 767344

Ion Ratio Lower Upper

105 100

120 25.4 20.2 30.2

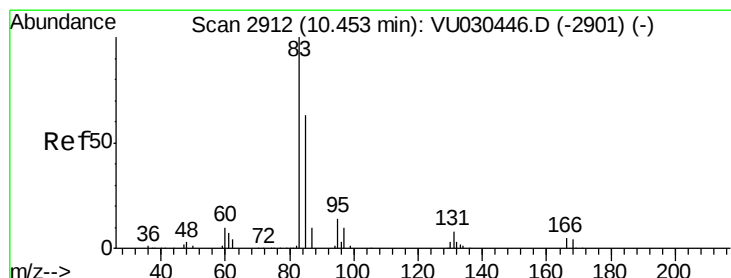
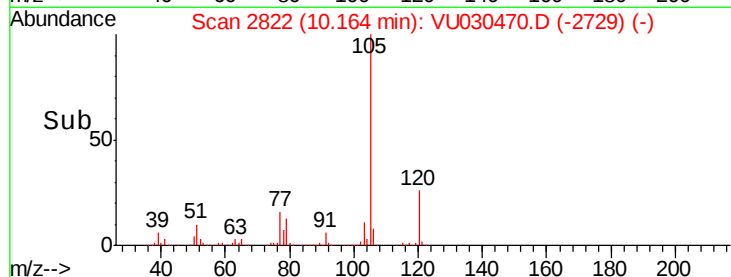
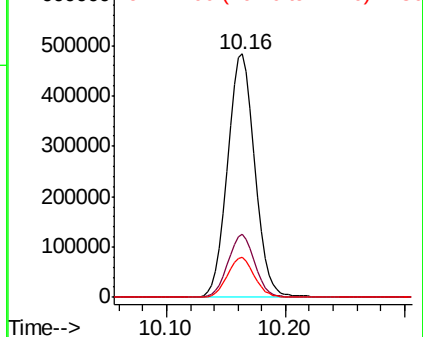
77 16.4 13.2 19.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.757 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

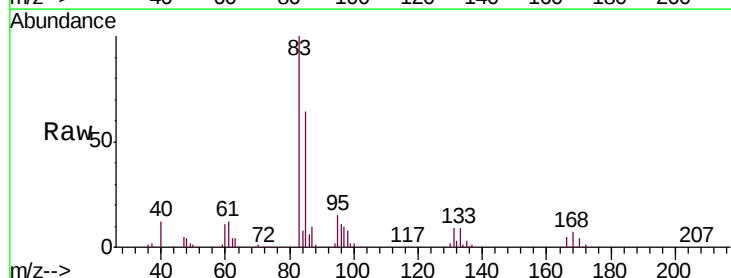
Tgt Ion: 83 Resp: 321314

Ion Ratio Lower Upper

83 100

85 64.0 44.3 82.3

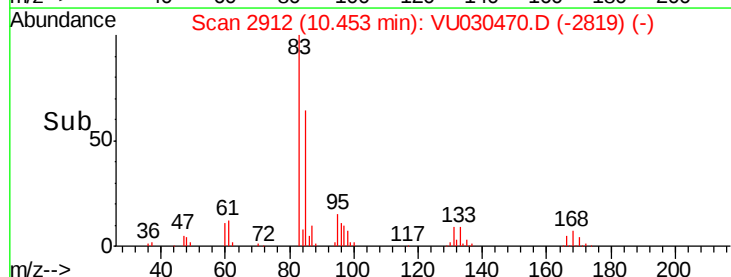
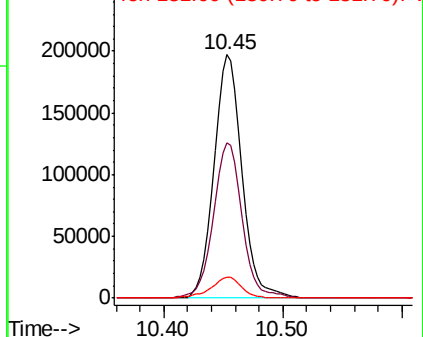
131 8.8 6.7 10.1

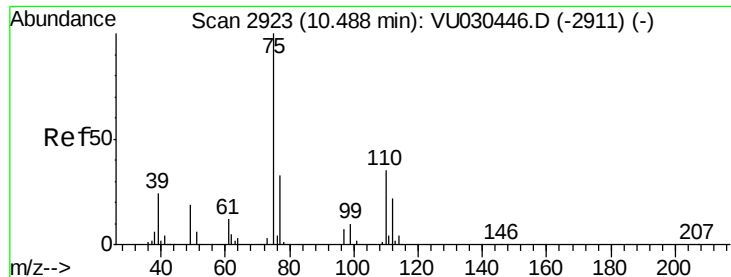


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 52.577 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

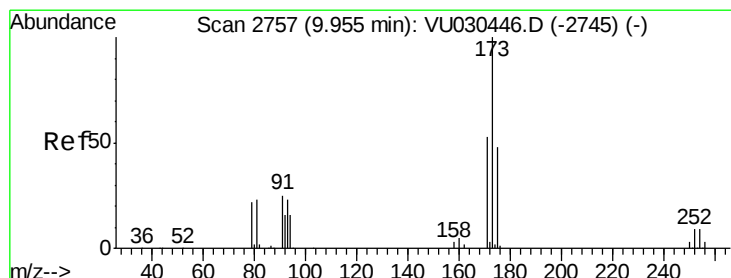
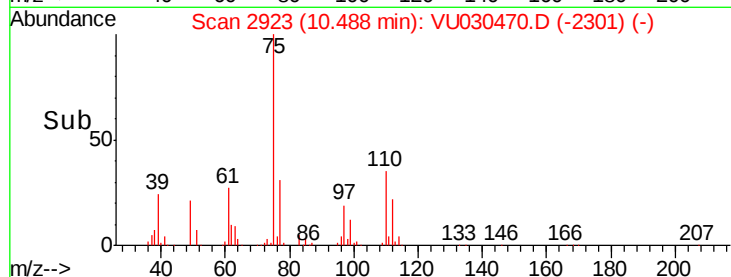
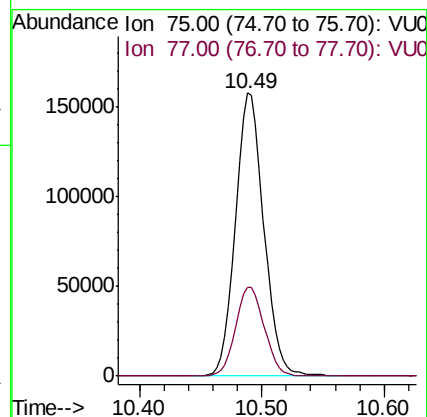
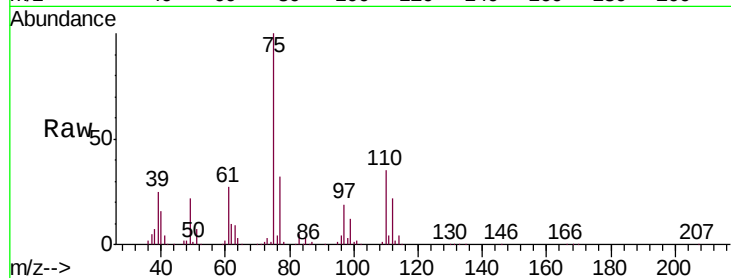
VSTD05034

Tgt Ion: 75 Resp: 255130

Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2



#61

Bromoform

Concen: 50.741 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

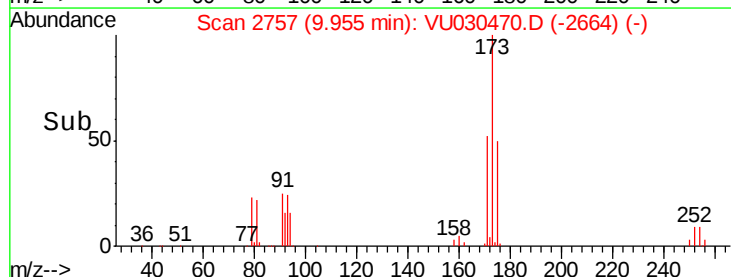
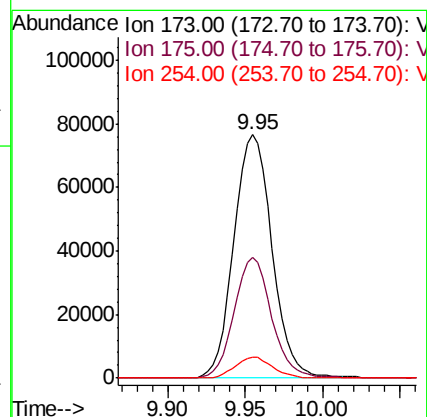
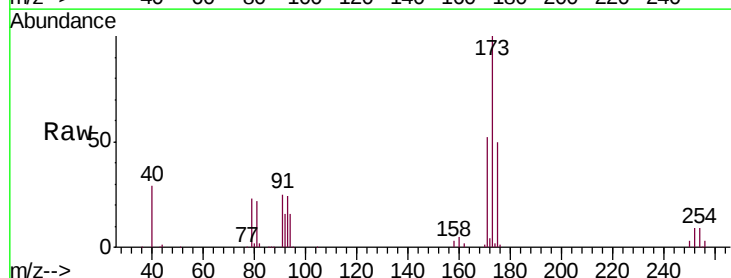
Tgt Ion: 173 Resp: 131399

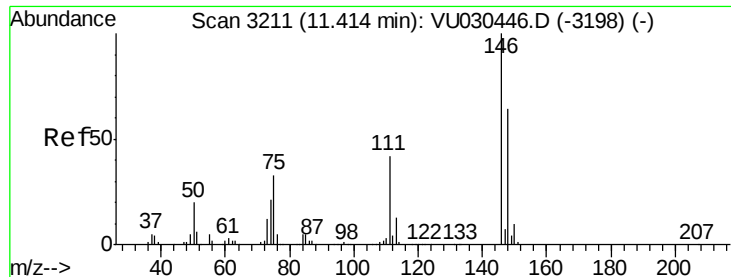
Ion Ratio Lower Upper

173 100

175 48.6 38.5 57.7

254 8.5 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 49.627 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampled :

VSTD05034

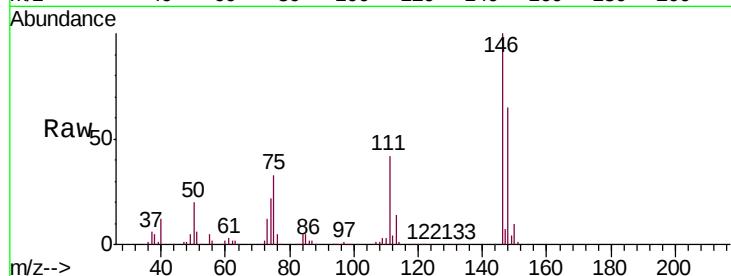
Tgt Ion:146 Resp: 316103

Ion Ratio Lower Upper

146 100

111 42.4 29.2 54.2

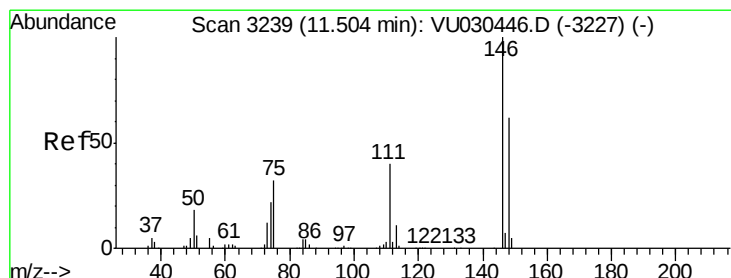
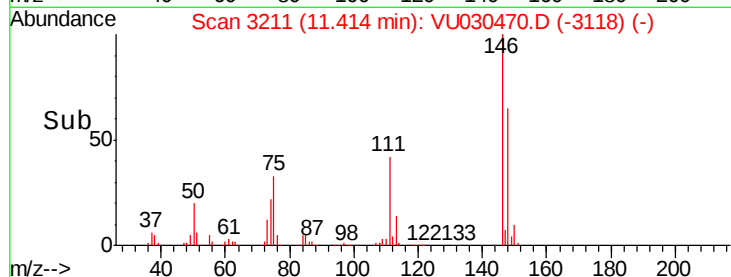
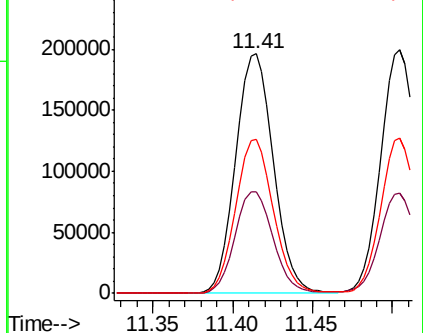
148 64.5 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.625 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

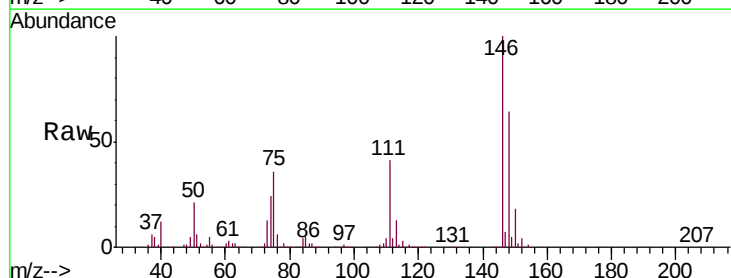
Tgt Ion:146 Resp: 318846

Ion Ratio Lower Upper

146 100

111 41.1 28.7 53.3

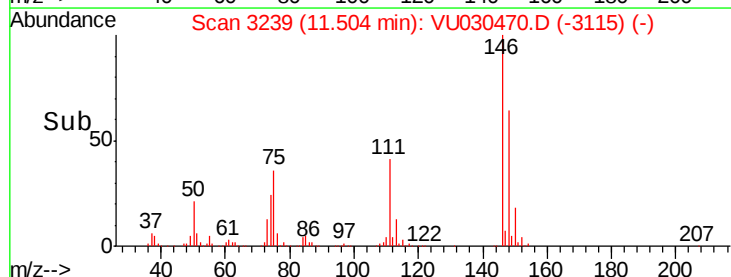
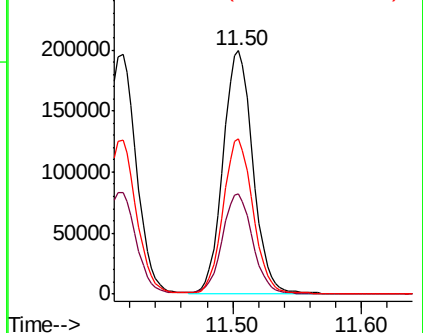
148 63.9 44.3 82.3

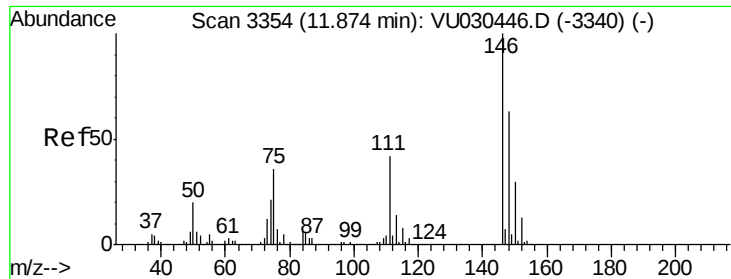


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

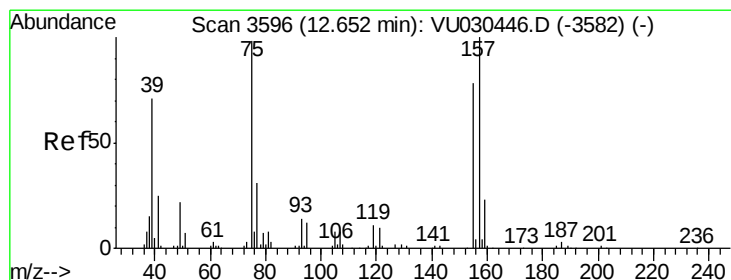
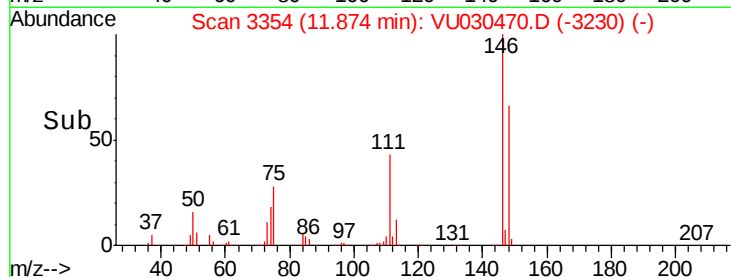
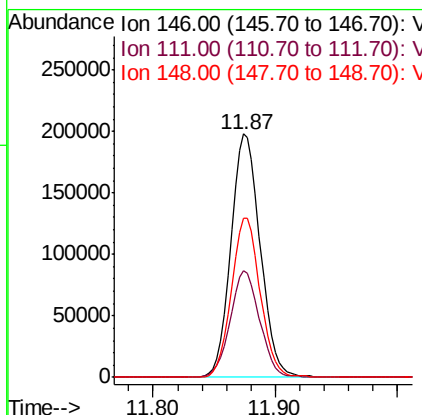
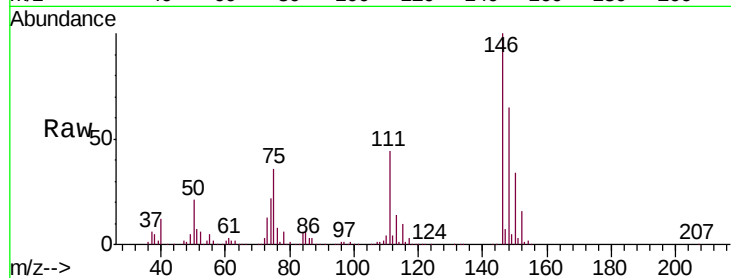




#65
 1,2-Dichlorobenzene
 Concen: 51.325 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

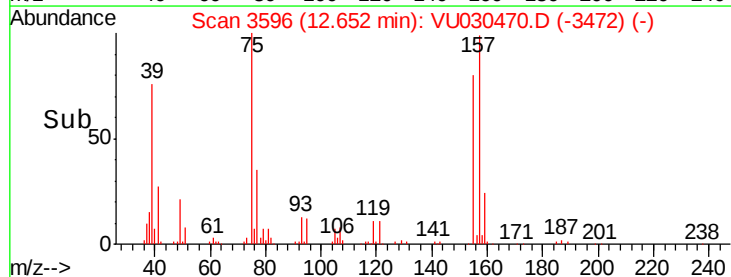
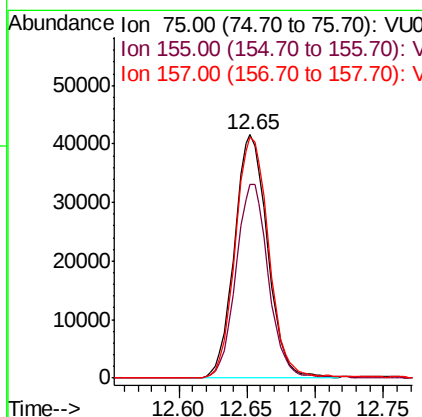
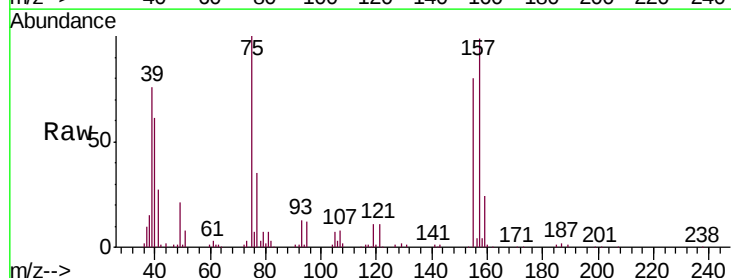
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

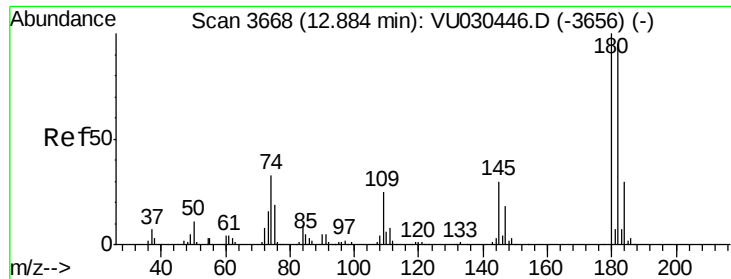
Tgt Ion:146 Resp: 330568
 Ion Ratio Lower Upper
 146 100
 111 44.0 34.9 52.3
 148 65.4 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.939 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

Tgt Ion: 75 Resp: 70184
 Ion Ratio Lower Upper
 75 100
 155 79.7 61.8 92.6
 157 98.8 80.2 120.4

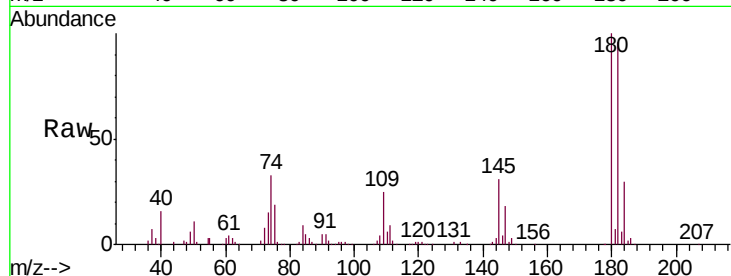




#67
 1,3,5-Trichlorobenzene
 Concen: 47.537 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.9	113.9
184	30.1	24.1	36.1
145	29.7	23.8	35.8



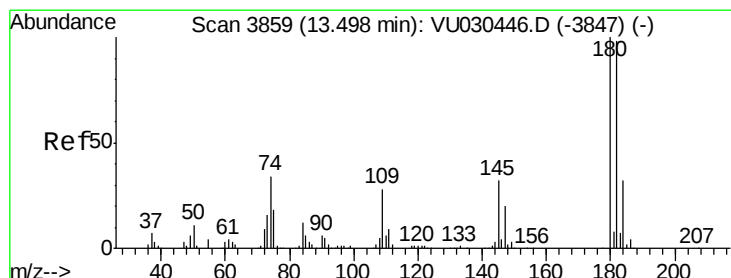
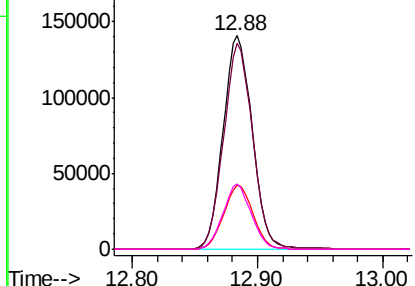
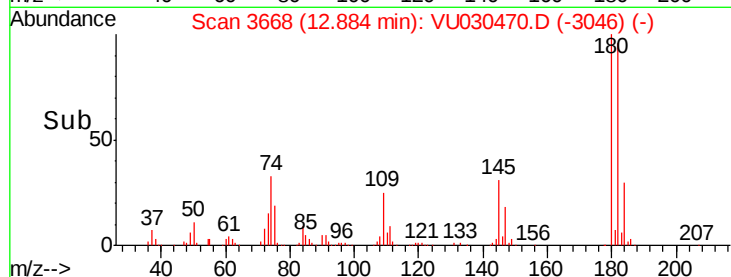
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

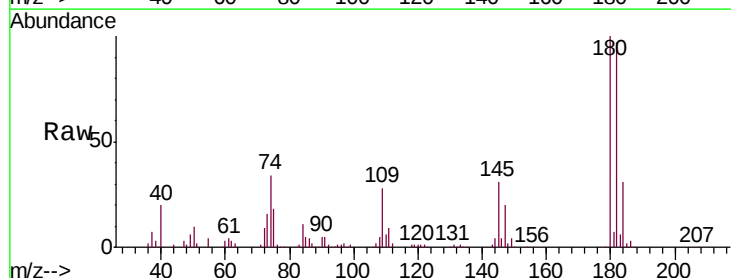
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 45.600 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030470.D
 Acq: 27 Mar 2019 01:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
145	30.4	24.5	36.7

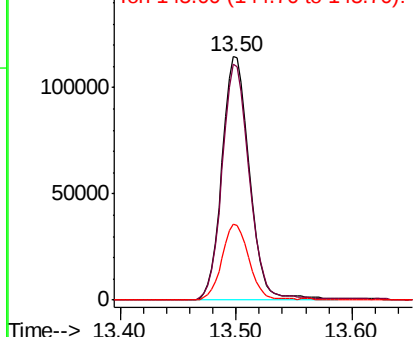
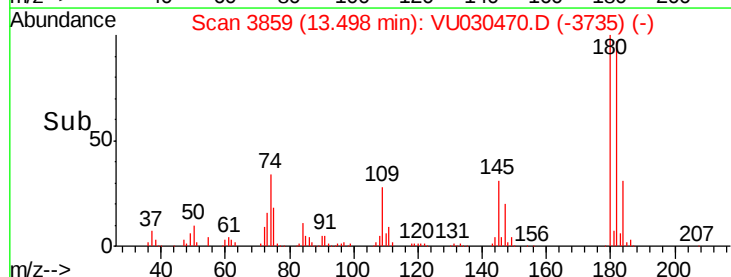


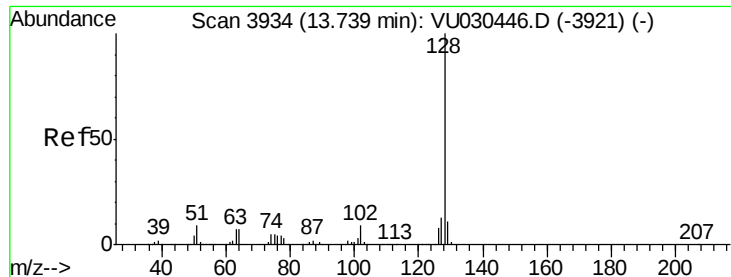
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 43.699 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

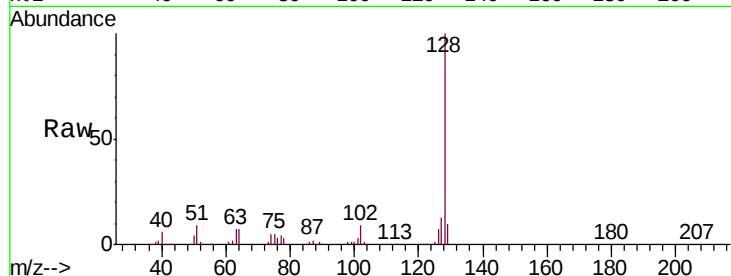
Tgt Ion:128 Resp: 643791

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

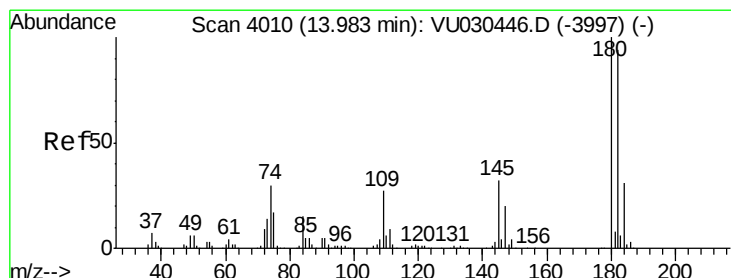
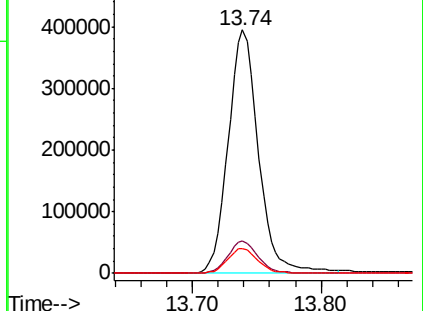
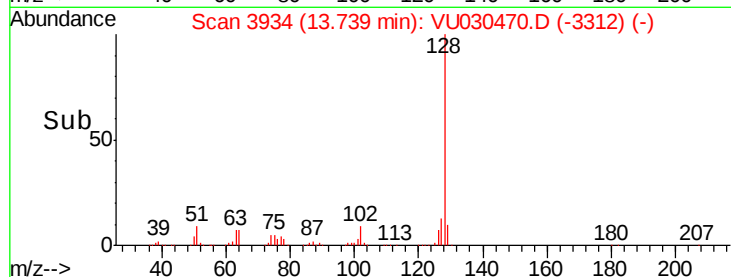
129 10.3 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 46.514 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030470.D

Acq: 27 Mar 2019 01:47

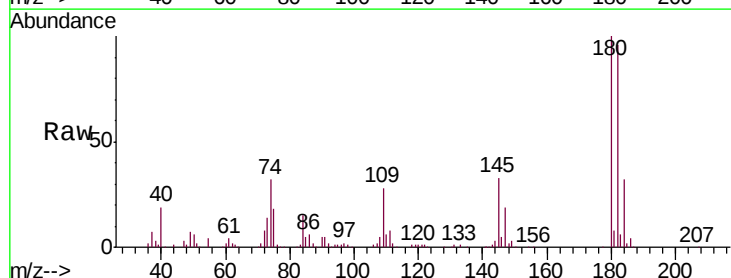
Tgt Ion:180 Resp: 203496

Ion Ratio Lower Upper

180 100

182 93.3 77.4 116.2

145 31.4 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

