

Data File : VU031545.D
Acq On : 26 Apr 2019 20:46
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Quant Time: Apr 27 00:25:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Apr 27 00:11:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	893900	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	838140	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	377228	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	307695	41.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.26%
7) Chloroethane-d5	1.68	69	246547	42.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.30%
11) 1,1-Dichloroethene-d2	2.27	63	637175	42.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.54%
21) 2-Butanone-d5	4.19	46	665535	98.19	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.19%
24) Chloroform-d	4.64	84	595736	43.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.96%
26) 1,2-Dichloroethane-d4	5.31	65	380780	42.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.08%
32) Benzene-d6	5.34	84	1191170	46.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.56%
36) 1,2-Dichloropropane-d6	6.32	67	413069	45.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.24%
41) Toluene-d8	7.56	98	1057767	47.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.38%
43) trans-1,3-Dichloropropene-	7.85	79	181870	46.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.58%
47) 2-Hexanone-d5	8.31	63	424714	108.37	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.37%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	559895	46.07	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.14%
64) 1,2-Dichlorobenzene-d4	11.86	152	374399	47.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.38%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	396309	40.318	ug/L	98
3) Chloromethane	1.32	50	493850	41.525	ug/L	99
5) Vinyl chloride	1.40	62	474889	42.709	ug/L	100
6) Bromomethane	1.63	94	256240	43.699	ug/L	99
8) Chloroethane	1.70	64	261564	43.035	ug/L	99
9) Trichlorofluoromethane	1.88	101	541154	42.693	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	307239	42.879	ug/L	98
12) 1,1-Dichloroethene	2.28	96	308315	44.207	ug/L	93
13) Acetone	2.34	43	480316	62.907	ug/L	99
14) Carbon disulfide	2.47	76	977839	42.252	ug/L	100
15) Methyl Acetate	2.62	43	501272	43.388	ug/L	96
16) Methylene chloride	2.70	84	362544	44.048	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	325155	44.743	ug/L	92
18) Methyl tert-butyl Ether	3.00	73	1115411	48.176	ug/L	98
19) 1,1-Dichloroethane	3.44	63	675926	44.165	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	368627	47.288	ug/L	96
22) 2-Butanone	4.27	43	733538	86.715	ug/L	96

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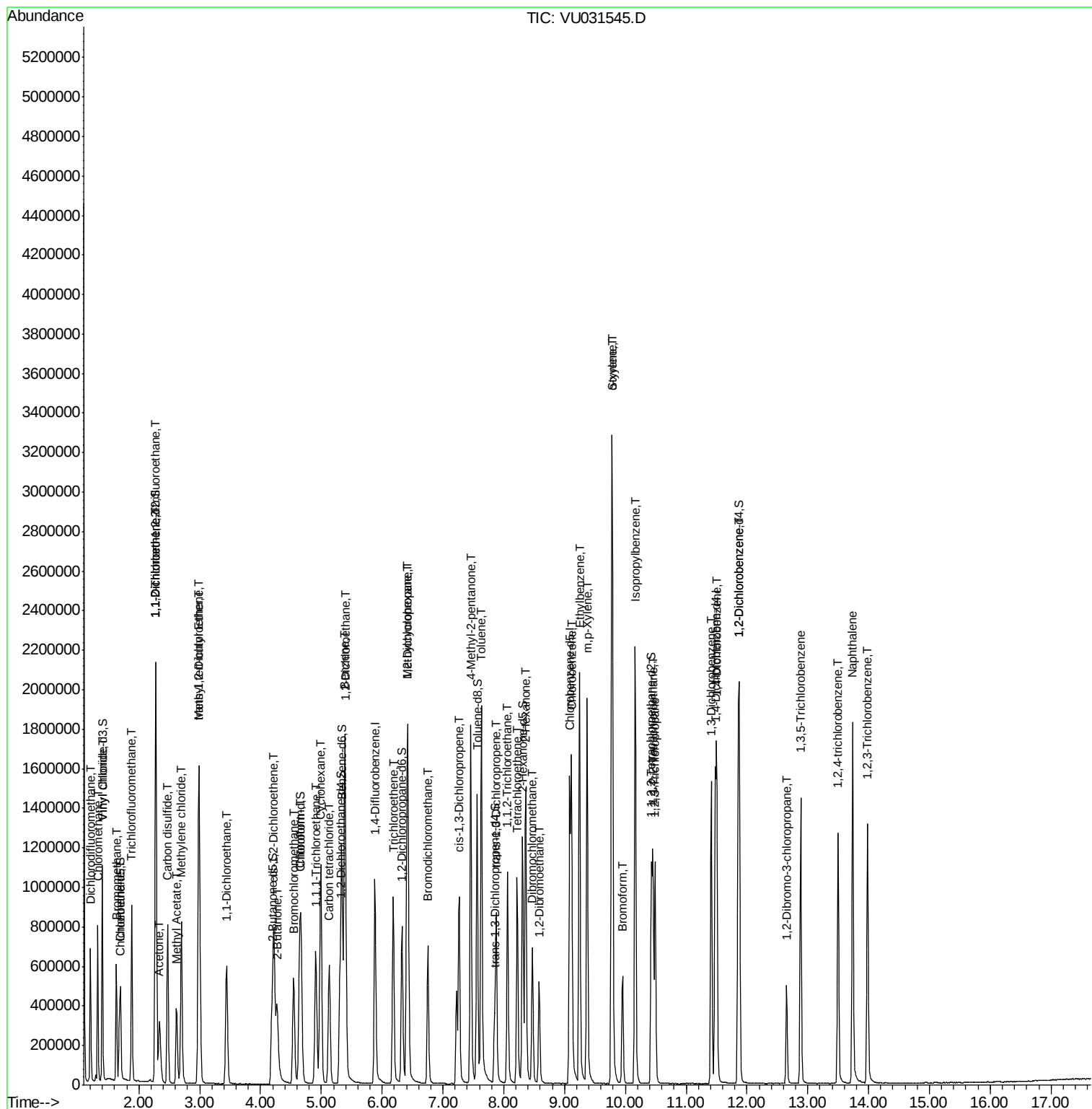
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	175063	46.216	ug/L	91
25) Chloroform	4.67	83	637340	43.548	ug/L	97
27) 1,2-Dichloroethane	5.40	62	501517	42.188	ug/L	100
29) Cyclohexane	4.99	56	640370	48.276	ug/L	96
30) 1,1,1-Trichloroethane	4.91	97	526932	44.871	ug/L	98
31) Carbon tetrachloride	5.13	117	434720	43.311	ug/L	98
33) Benzene	5.39	78	1437957	46.664	ug/L	100
34) Trichloroethene	6.18	95	356371	47.709	ug/L	99
35) Methylcyclohexane	6.41	83	543683	48.567	ug/L	97
37) 1,2-Dichloropropane	6.43	63	394661	45.114	ug/L	99
38) Bromodichloromethane	6.75	83	476075	44.883	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	593401	51.334	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	1301135	96.672	ug/L	99
42) Toluene	7.63	91	1494224	48.678	ug/L	97
44) trans-1,3-Dichloropropene	7.88	75	506106	48.272	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	344329	47.744	ug/L	99
46) Tetrachloroethene	8.22	164	243928	47.901	ug/L	97
48) 2-Hexanone	8.36	43	1012386	93.001	ug/L	98
49) Dibromochloromethane	8.47	129	353041	47.048	ug/L	98
50) 1,2-Dibromoethane	8.58	107	361036	47.400	ug/L	96
51) Chlorobenzene	9.12	112	869885	47.956	ug/L	96
52) Ethylbenzene	9.25	91	1580825	49.647	ug/L	99
53) m,p-Xylene	9.37	106	573641	51.708	ug/L	95
54) o-xylene	9.77	106	571876	51.996	ug/L	93
55) Styrene	9.79	104	973079	51.785	ug/L	99
56) Isopropylbenzene	10.16	105	1480396	51.187	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	599021	46.808	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	482412	46.511	ug/L	99
61) Bromoform	9.95	173	255062	45.613	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	621502	49.772	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	609944	47.166	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	632366	47.650	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	133049	43.197	ug/L	84
67) 1,3,5-Trichlorobenzene	12.88	180	443444	47.414	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	396801	53.592	ug/L	97
69) Naphthalene	13.74	128	1471147	58.277	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	414290	49.148	ug/L	98

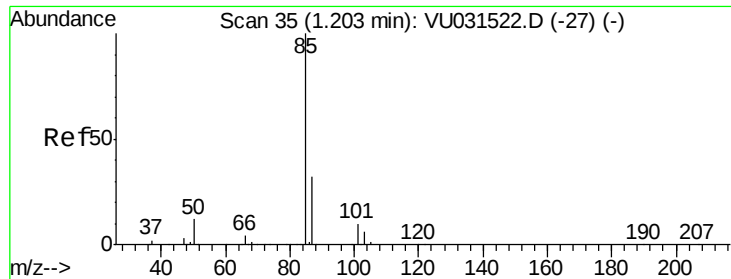
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 40.318 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

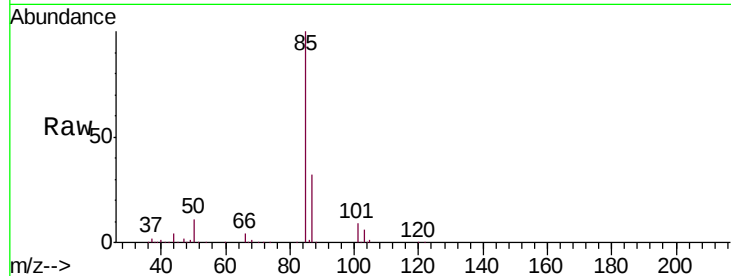
VSTD05050

Tgt Ion: 85 Resp: 396309

Ion Ratio Lower Upper

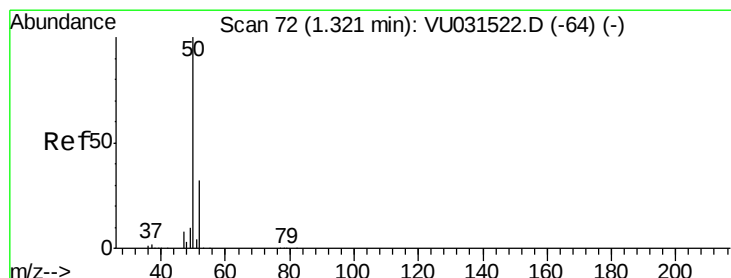
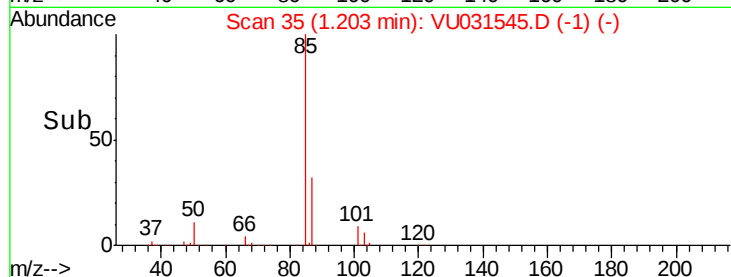
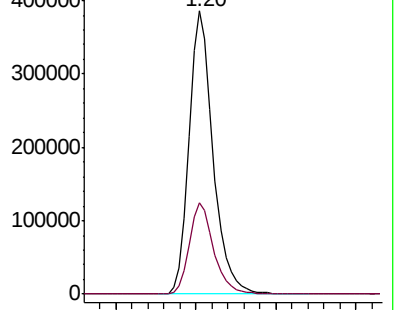
85 100

87 32.9 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031522.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031522.D (-27) (-)



#3

Chloromethane

Concen: 41.525 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU031545.D

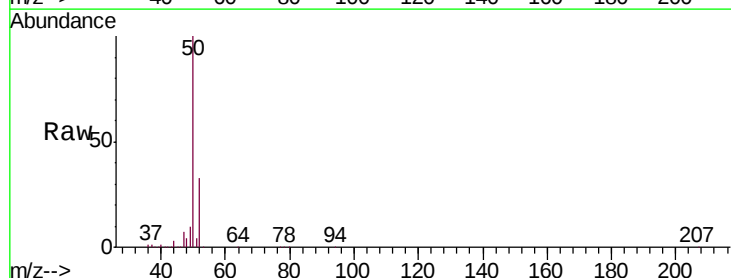
Acq: 26 Apr 2019 20:46

Tgt Ion: 50 Resp: 493850

Ion Ratio Lower Upper

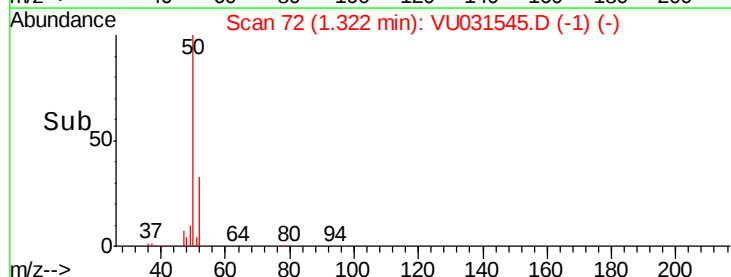
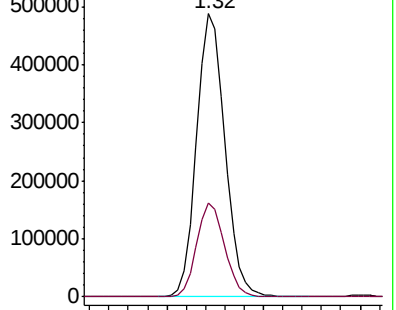
50 100

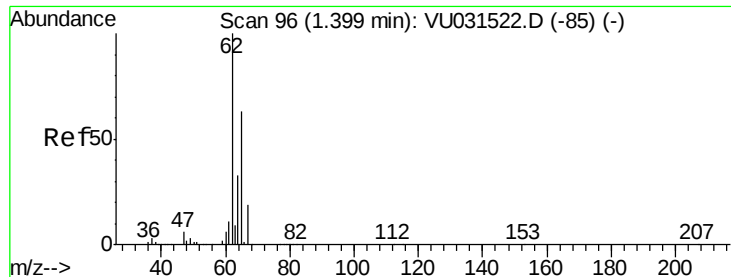
52 33.0 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031522.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU031522.D (-64) (-)





#5

Vinyl chloride

Concen: 42.709 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

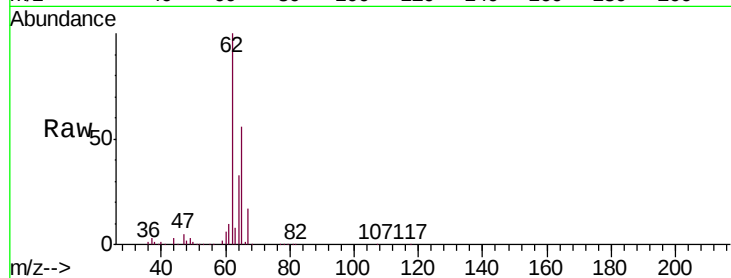
VSTD05050

Tgt Ion: 62 Resp: 474889

Ion Ratio Lower Upper

62 100

64 32.9 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031522.D (-85) (-)

Ion 64.00 (63.70 to 64.70): VU031522.D (-85) (-)

1.40

400000

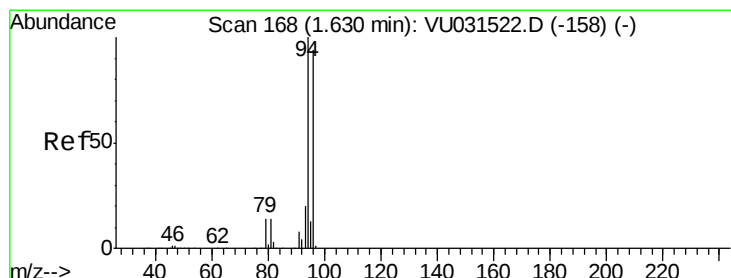
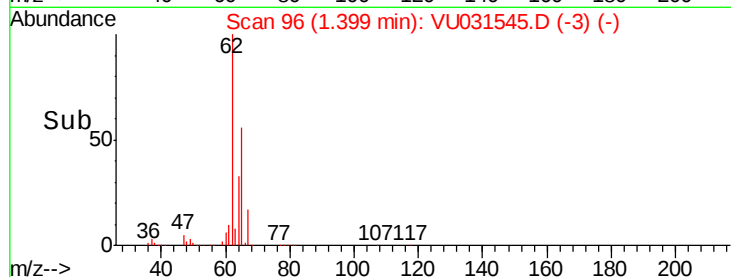
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 43.699 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031545.D

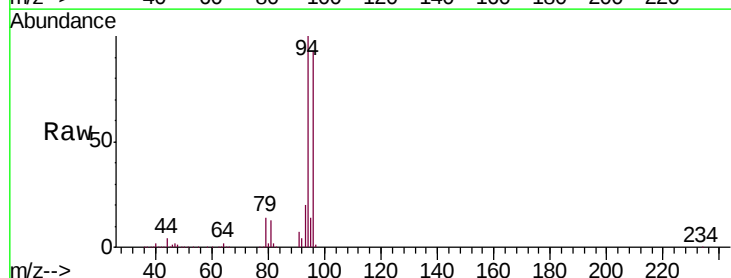
Acq: 26 Apr 2019 20:46

Tgt Ion: 94 Resp: 256240

Ion Ratio Lower Upper

94 100

96 92.9 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031522.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU031522.D (-158) (-)

1.63

250000

200000

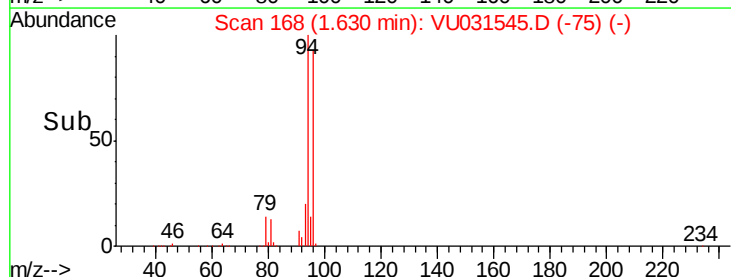
150000

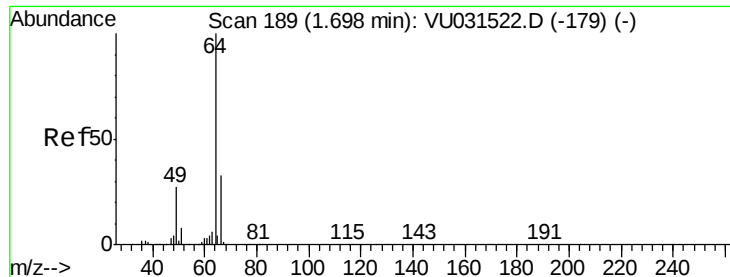
100000

50000

0

Time-->

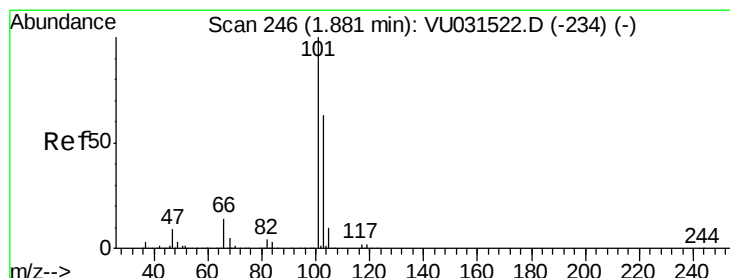
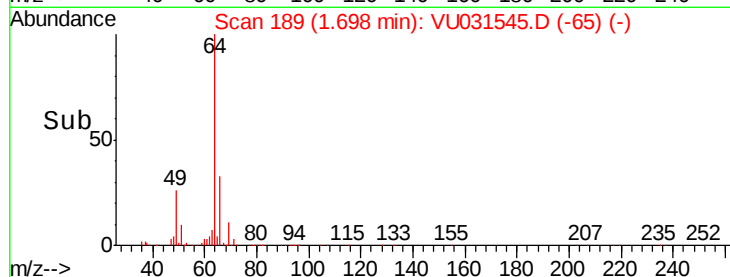
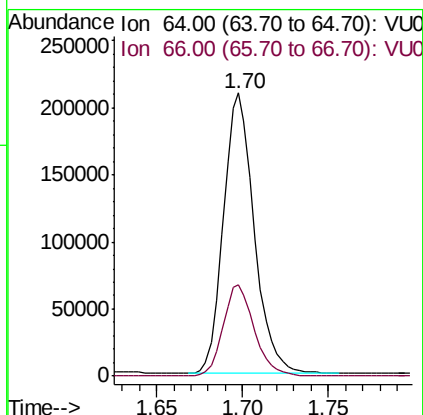
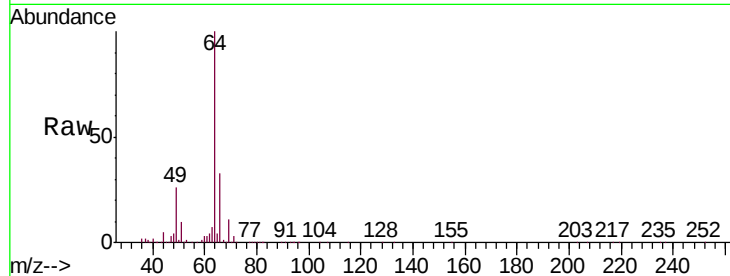




#8
Chloroethane
Concen: 43.035 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

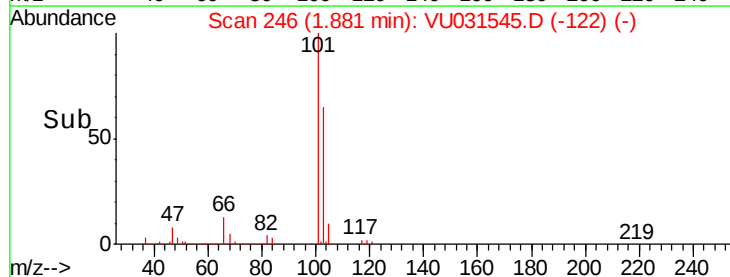
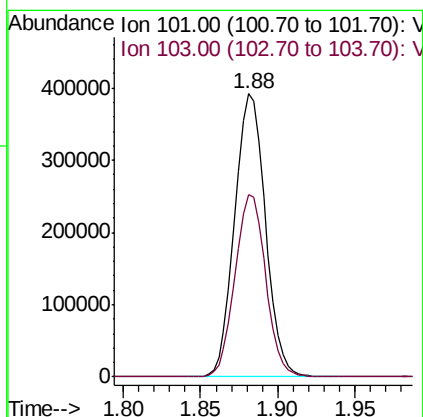
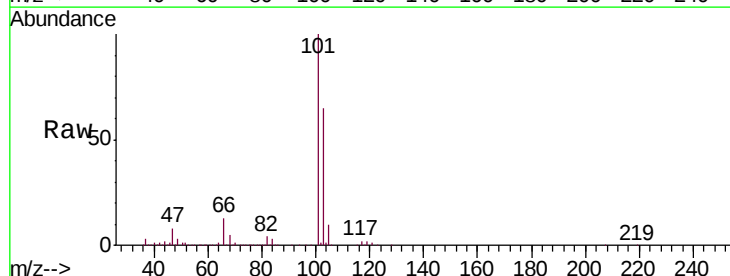
Instrument :
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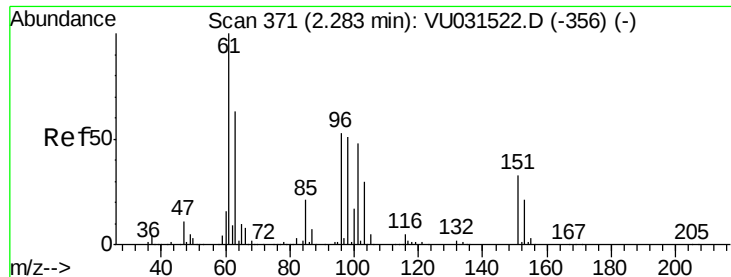
Tgt Ion: 64 Resp: 261564
Ion Ratio Lower Upper
64 100
66 32.5 23.2 43.0



#9
Trichlorofluoromethane
Concen: 42.693 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

Tgt Ion: 101 Resp: 541154
Ion Ratio Lower Upper
101 100
103 64.2 50.8 76.2





#10

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

Concen: 42.879 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

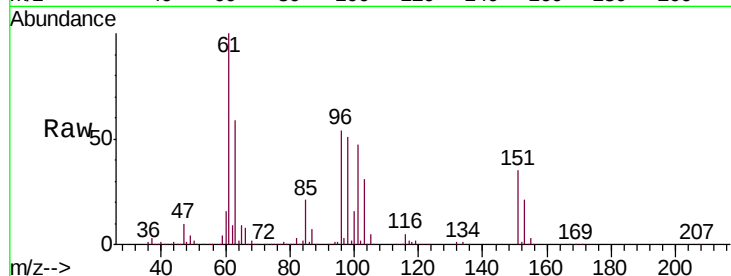
Tgt Ion: 101 Resp: 307239

Ion Ratio Lower Upper

101 100

85 43.9 36.1 54.1

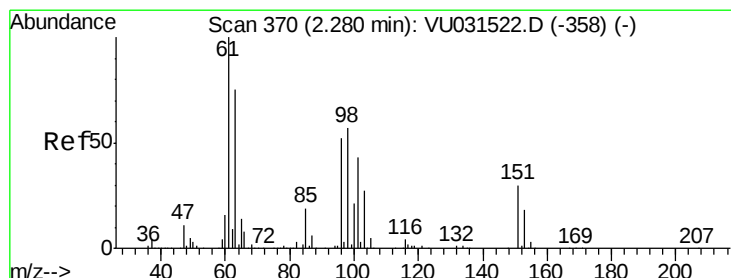
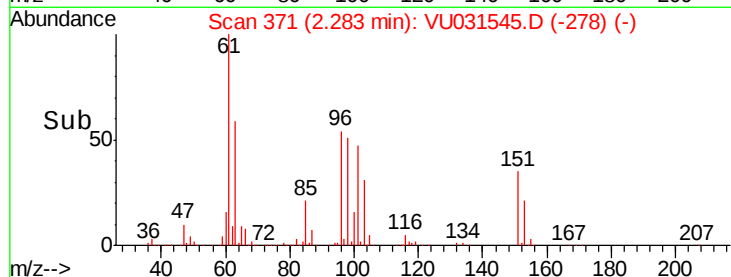
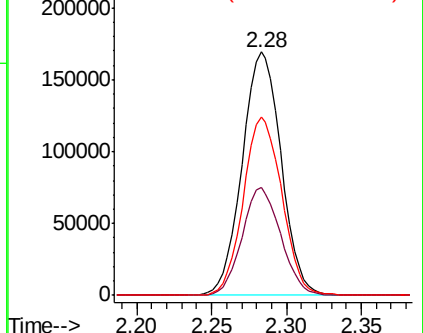
151 72.4 56.1 84.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 44.207 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

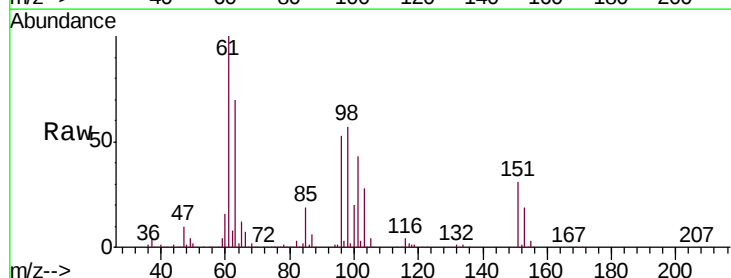
Tgt Ion: 96 Resp: 308315

Ion Ratio Lower Upper

96 100

61 189.3 135.0 250.6

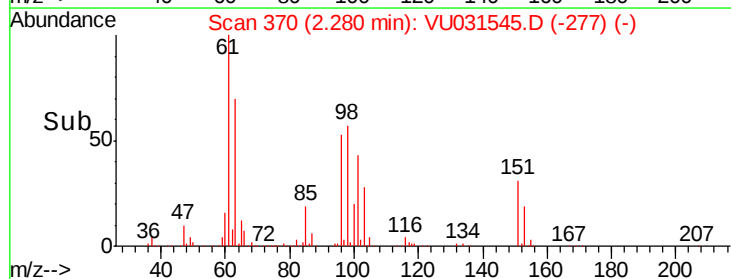
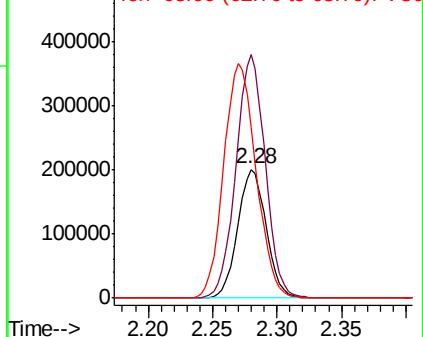
63 132.7 103.5 192.3

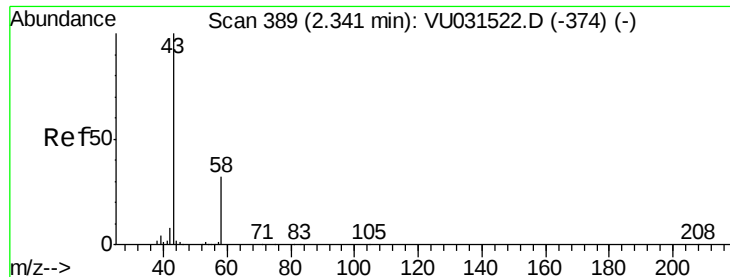


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 62.907 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.00 min

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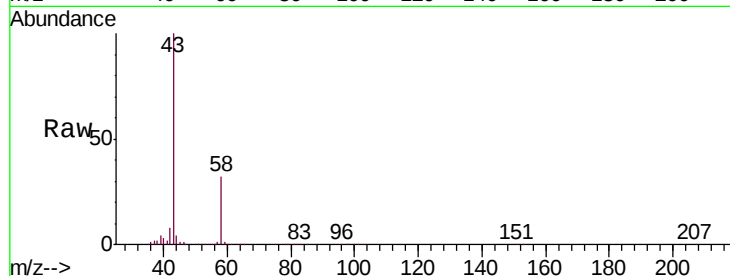
VSTD05050

Tgt Ion: 43 Resp: 480316

Ion Ratio Lower Upper

43 100

58 32.5 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031522.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031522.D (-374) (-)

2.34

200000

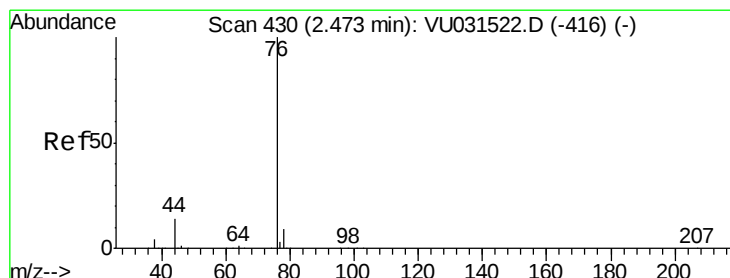
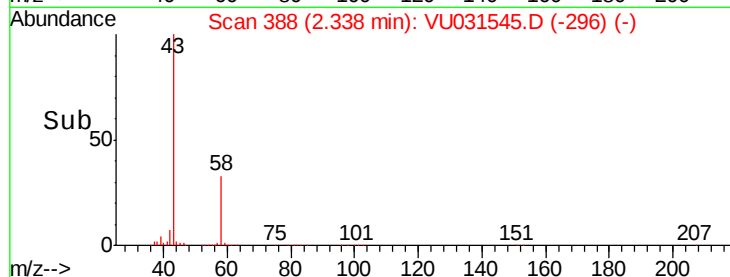
150000

100000

50000

0

Time--> 2.25 2.30 2.35 2.40 2.45



#14

Carbon disulfide

Concen: 42.252 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031545.D

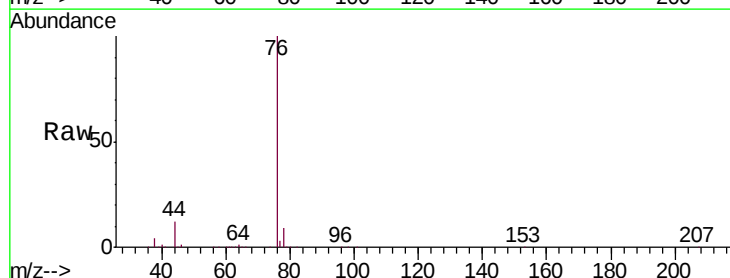
Acq: 26 Apr 2019 20:46

Tgt Ion: 76 Resp: 977839

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031522.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU031522.D (-416) (-)

2.47

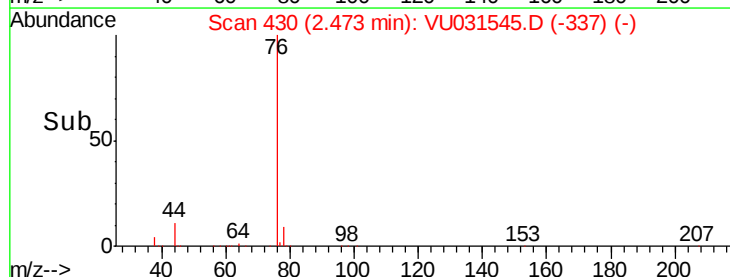
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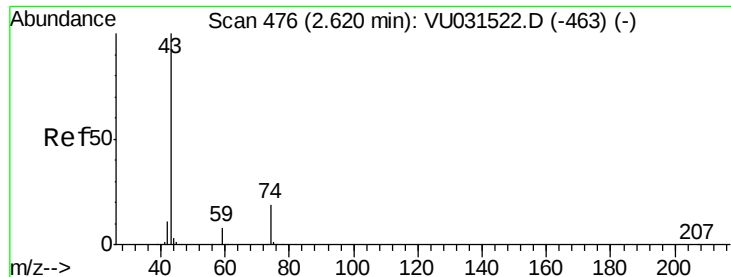
400000

200000

0

Time--> 2.40 2.45 2.50 2.55

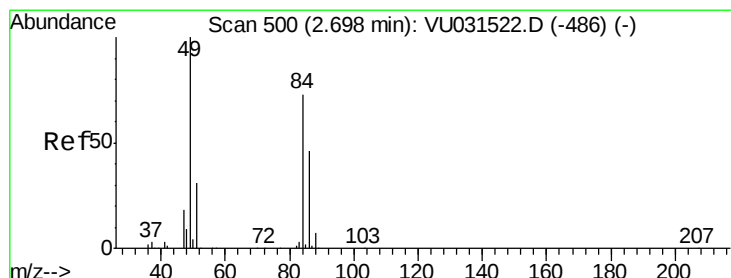
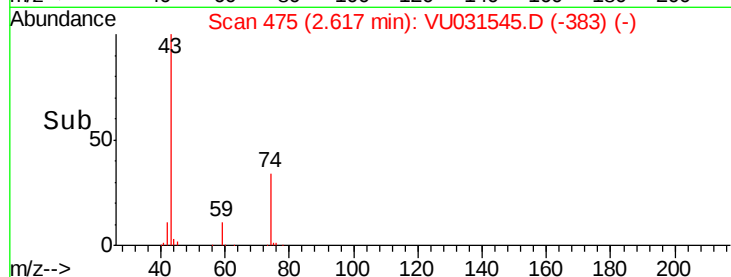
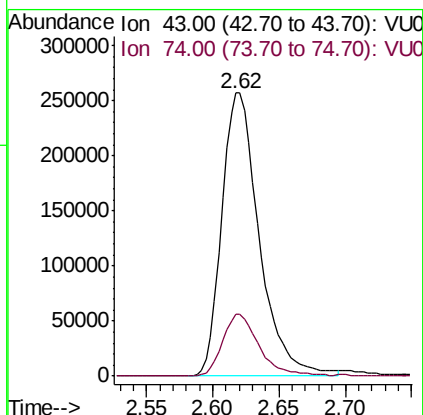
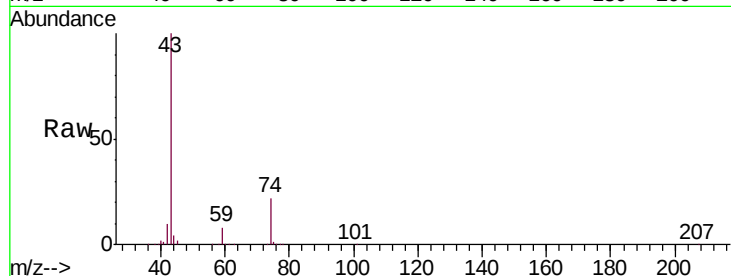




#15
Methyl Acetate
Concen: 43.388 ug/L
RT: 2.62 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

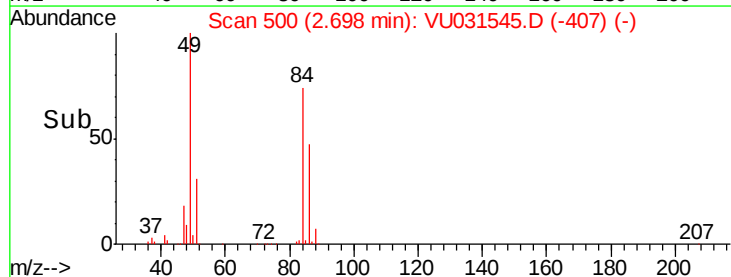
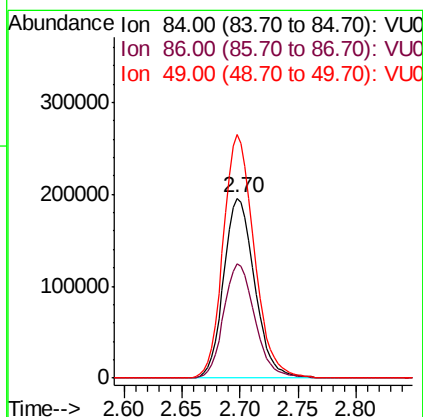
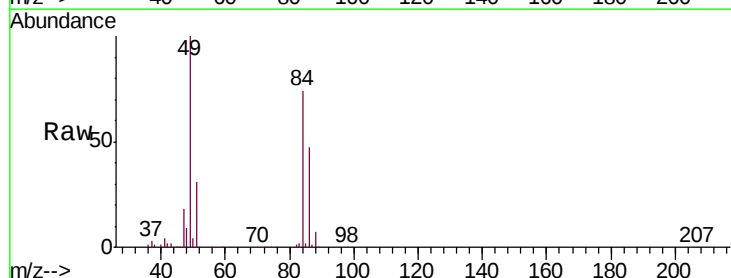
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

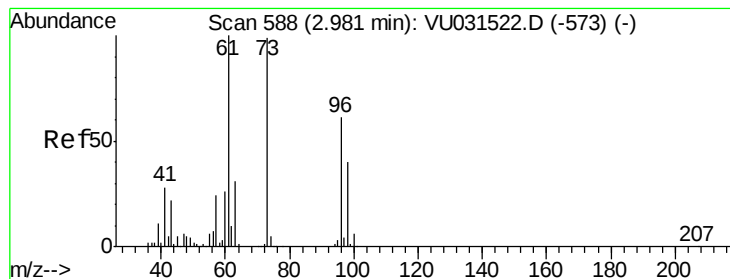
Tgt Ion: 43 Resp: 501272
Ion Ratio Lower Upper
43 100
74 21.3 15.7 23.5



#16
Methylene chloride
Concen: 44.048 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

Tgt Ion: 84 Resp: 362544
Ion Ratio Lower Upper
84 100
86 63.1 44.7 83.1
49 135.2 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 44.743 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

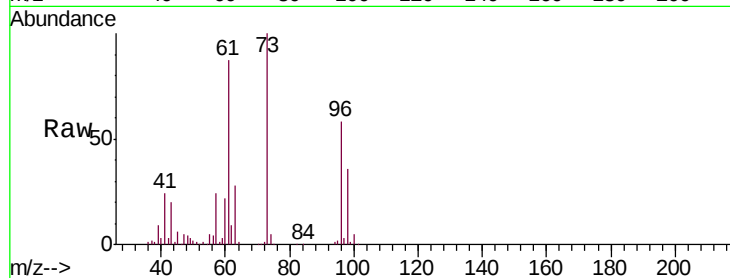
Tgt Ion: 96 Resp: 325155

Ion Ratio Lower Upper

96 100

61 150.7 114.5 212.7

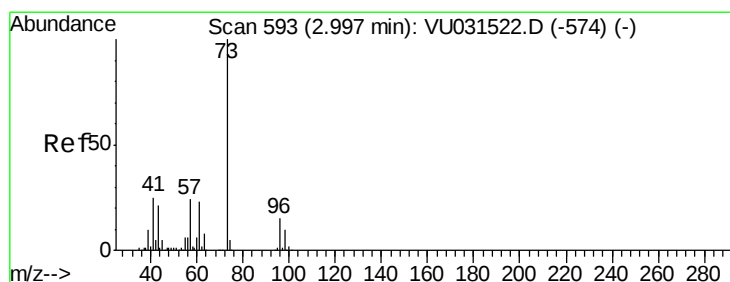
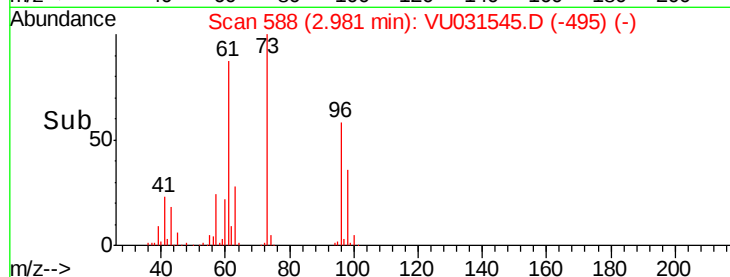
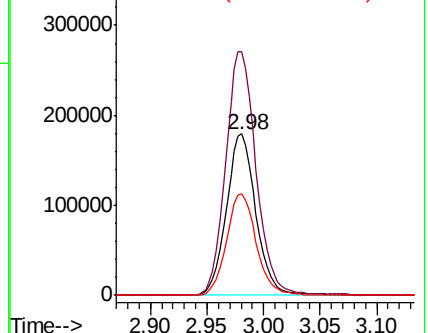
98 62.7 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031522.D (-573) (-)

Ion 61.00 (60.70 to 61.70): VU031522.D (-573) (-)

Ion 98.00 (97.70 to 98.70): VU031522.D (-573) (-)



#18

Methyl tert-butyl Ether

Concen: 48.176 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

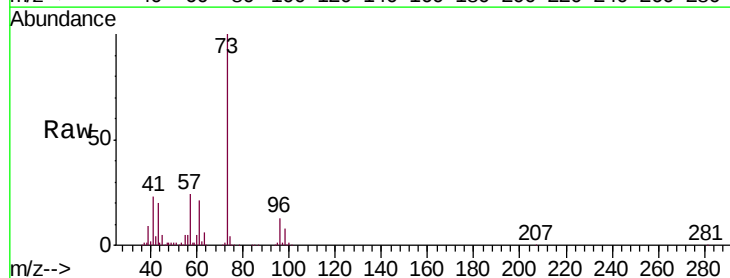
Tgt Ion: 73 Resp: 1115411

Ion Ratio Lower Upper

73 100

43 20.0 17.0 25.4

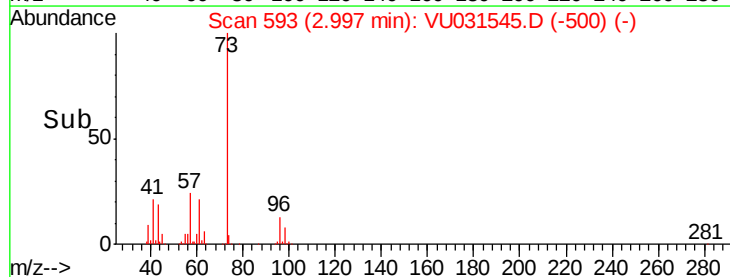
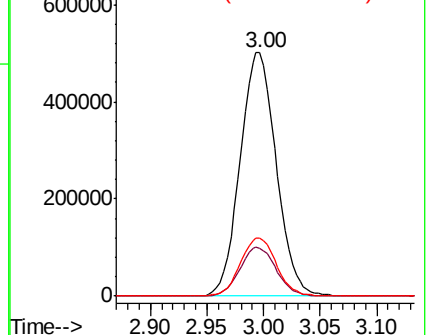
57 23.9 19.5 29.3

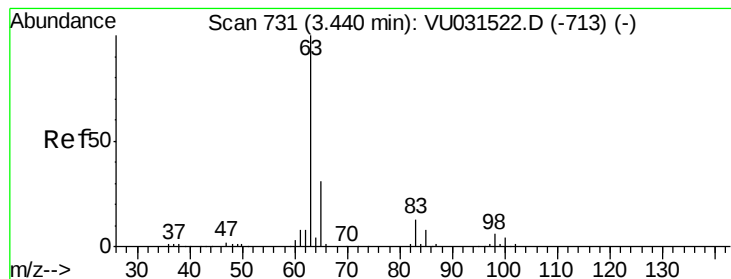


Abundance Ion 73.00 (72.70 to 73.70): VU031522.D (-574) (-)

Ion 43.00 (42.70 to 43.70): VU031522.D (-574) (-)

Ion 57.00 (56.70 to 57.70): VU031522.D (-574) (-)





#19

1,1-Dichloroethane

Concen: 44.165 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

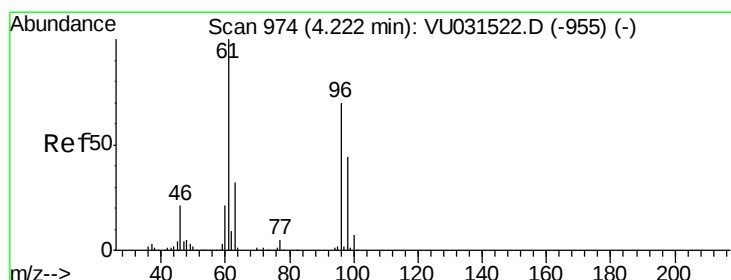
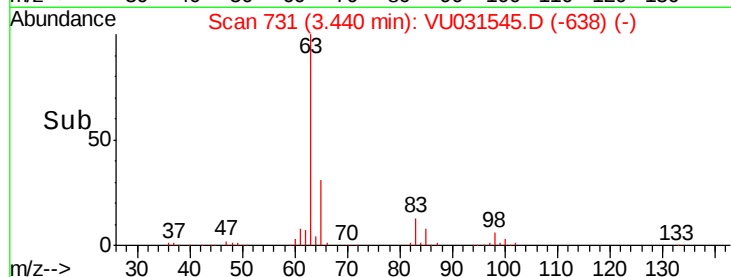
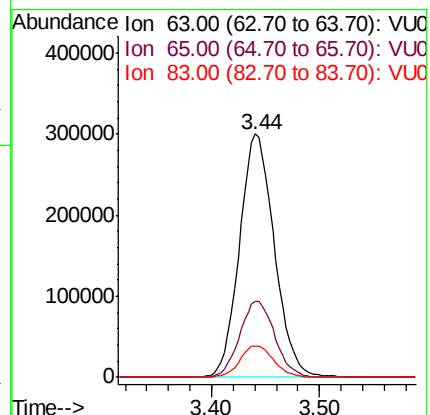
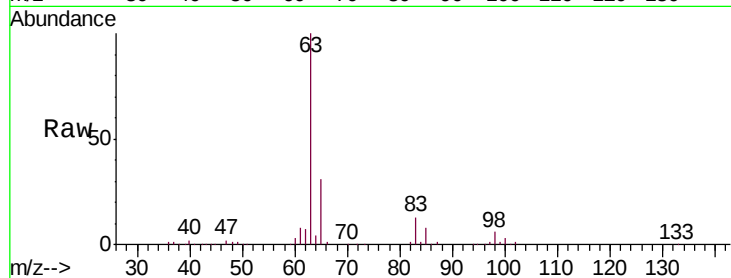
Tgt Ion: 63 Resp: 675926

Ion Ratio Lower Upper

63 100

65 31.4 22.0 40.8

83 12.9 8.8 16.4



#20

cis-1,2-Dichloroethene

Concen: 47.288 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

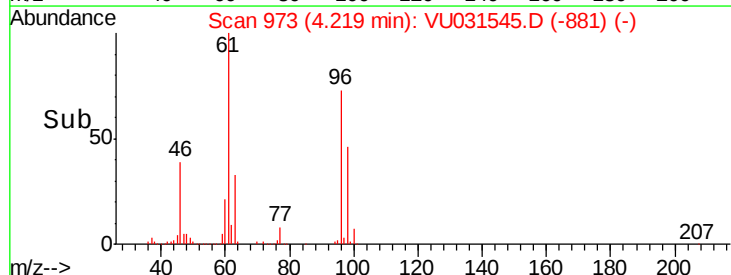
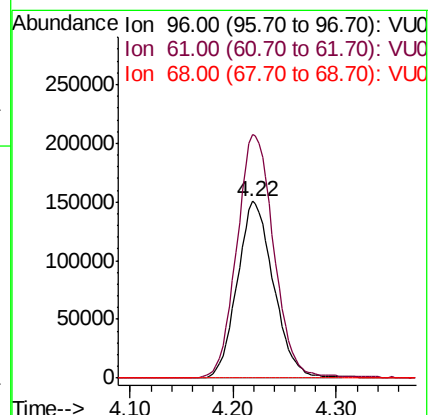
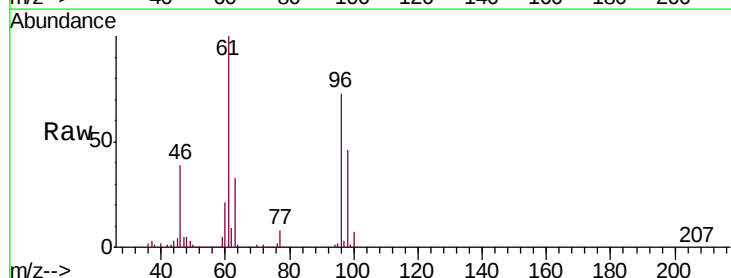
Tgt Ion: 96 Resp: 368627

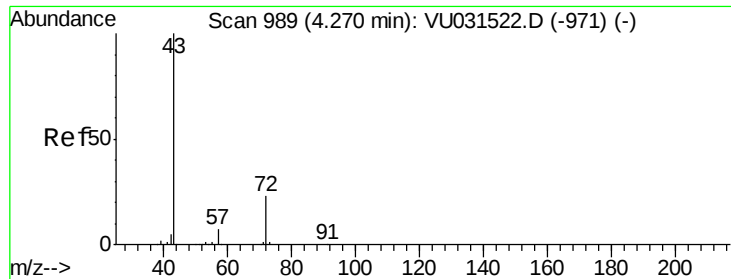
Ion Ratio Lower Upper

96 100

61 137.6 99.5 184.7

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 86.715 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

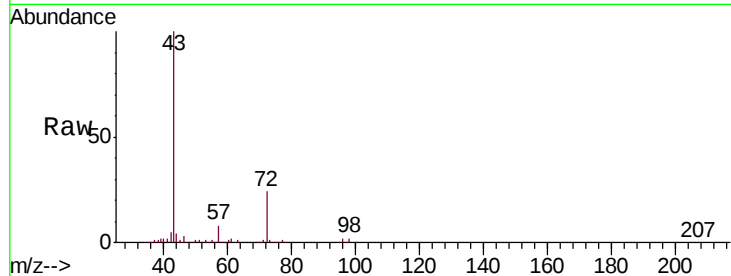
VSTD05050

Tgt Ion: 43 Resp: 733538

Ion Ratio Lower Upper

43 100

72 24.7 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031522.D (-971) (-)

Ion 72.00 (71.70 to 72.70): VU031522.D (-971) (-)

4.27

250000

200000

150000

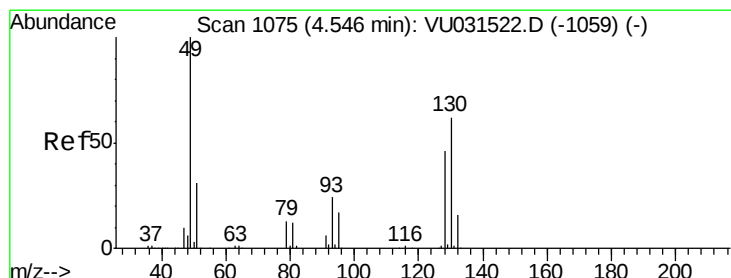
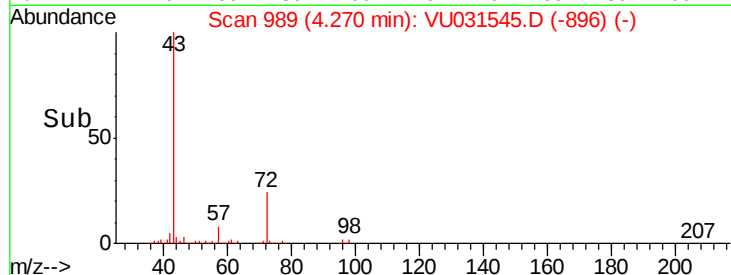
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 46.216 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Tgt Ion: 128 Resp: 175063

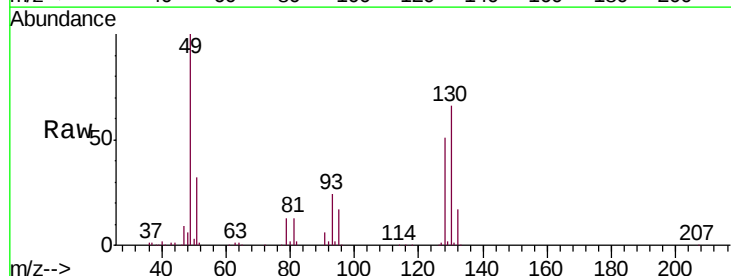
Ion Ratio Lower Upper

128 100

49 196.5 152.6 283.4

130 129.9 93.7 173.9

51 63.8 54.2 81.4



Abundance Ion 128.00 (127.70 to 128.70): VU031522.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU031522.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU031522.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU031522.D (-1059) (-)

200000

150000

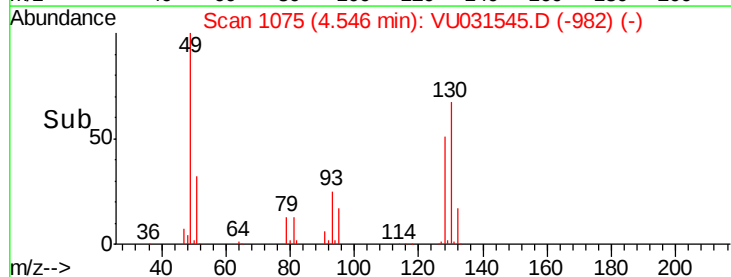
100000

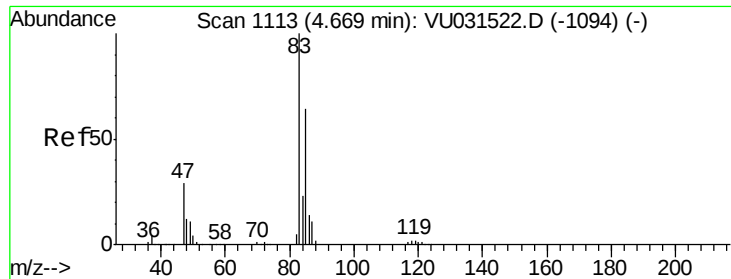
50000

0

4.50 4.55 4.60

Time-->

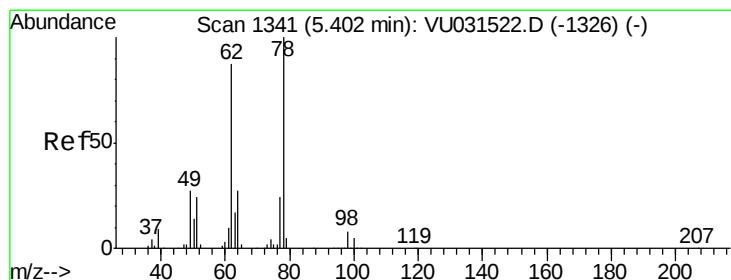
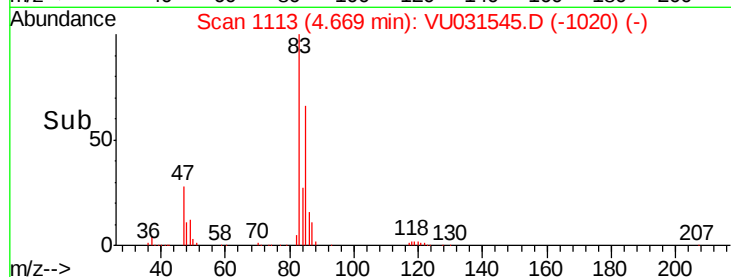
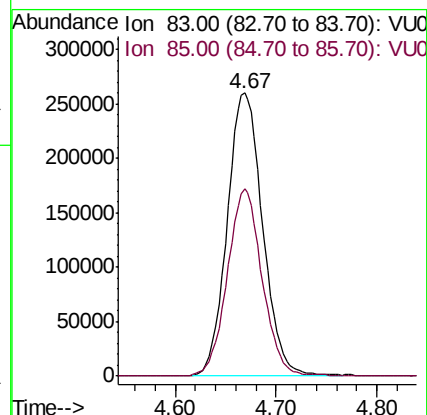
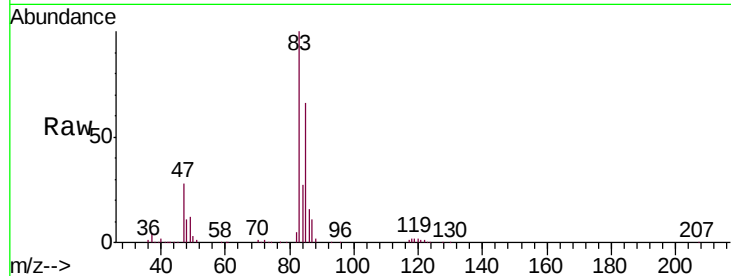




#25
Chloroform
Concen: 43.548 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

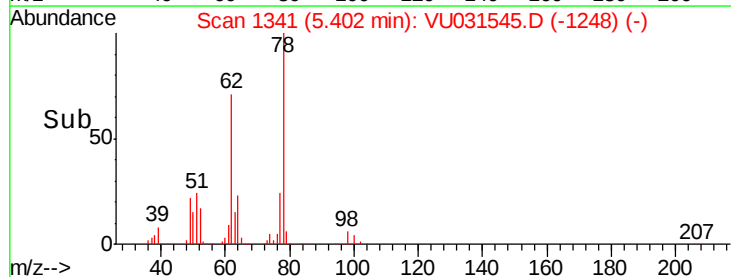
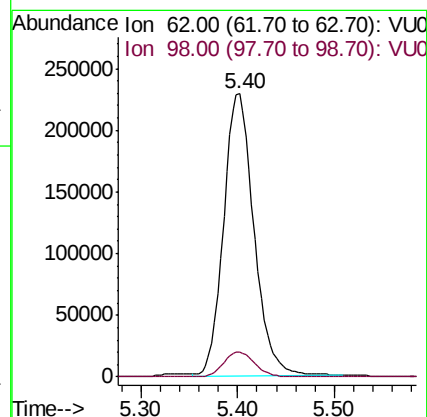
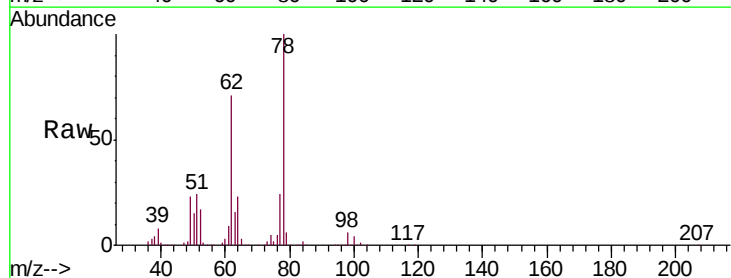
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

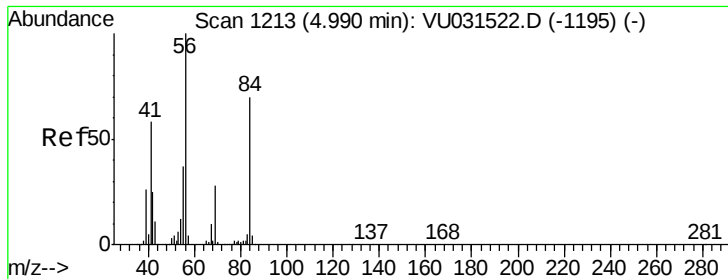
Tgt Ion: 83 Resp: 637340
Ion Ratio Lower Upper
83 100
85 66.4 44.9 83.3



#27
1,2-Dichloroethane
Concen: 42.188 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

Tgt Ion: 62 Resp: 501517
Ion Ratio Lower Upper
62 100
98 8.8 7.1 10.7

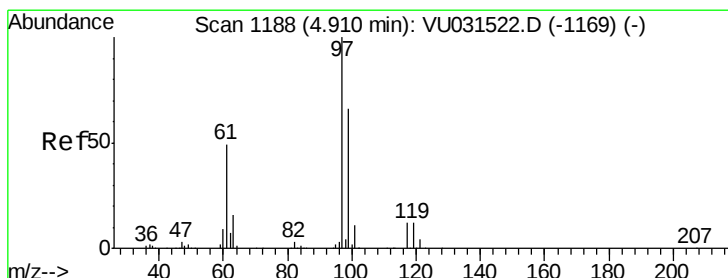
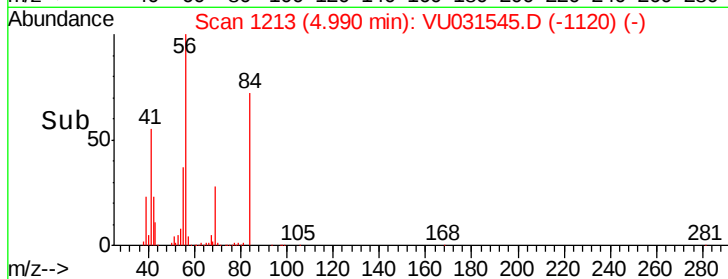
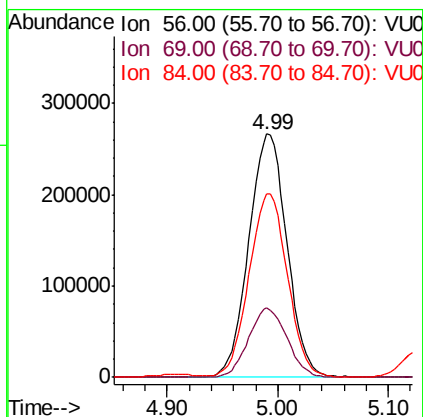
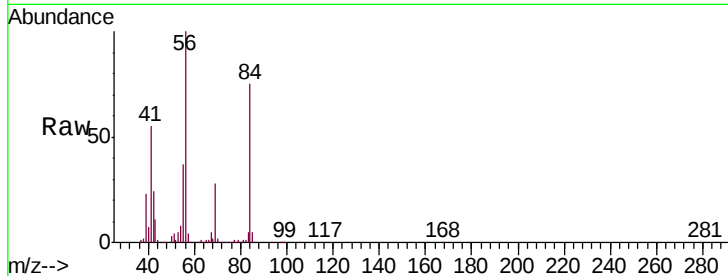




#29
Cyclohexane
Concen: 48.276 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

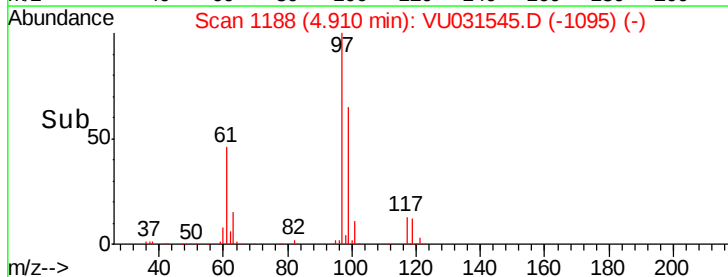
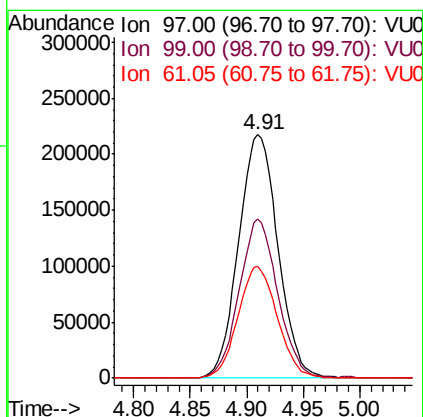
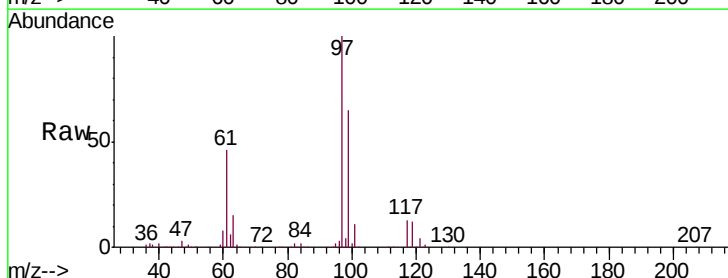
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

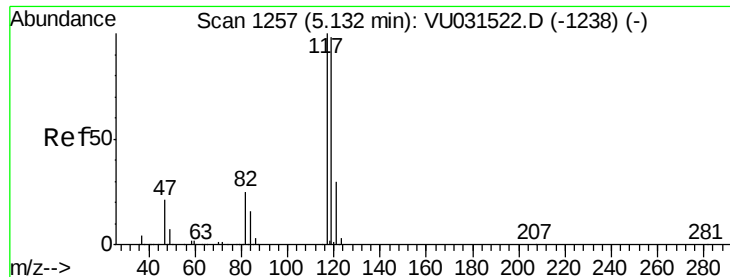
Tgt Ion: 56 Resp: 640370
Ion Ratio Lower Upper
56 100
69 28.7 22.3 33.5
84 75.5 57.5 86.3



#30
1,1,1-Trichloroethane
Concen: 44.871 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

Tgt Ion: 97 Resp: 526932
Ion Ratio Lower Upper
97 100
99 64.0 52.0 78.0
61 45.8 38.7 58.1

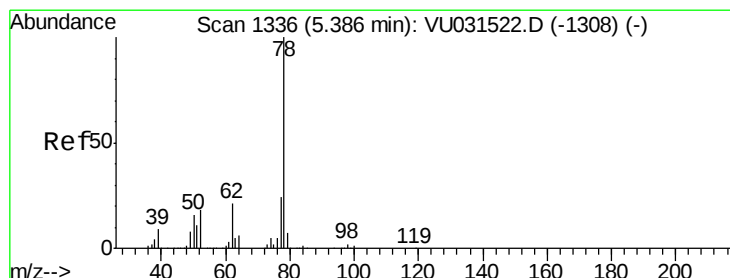
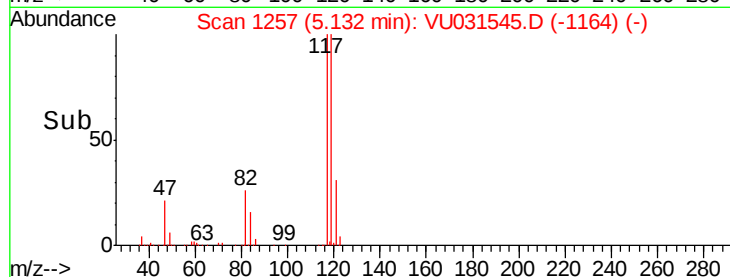
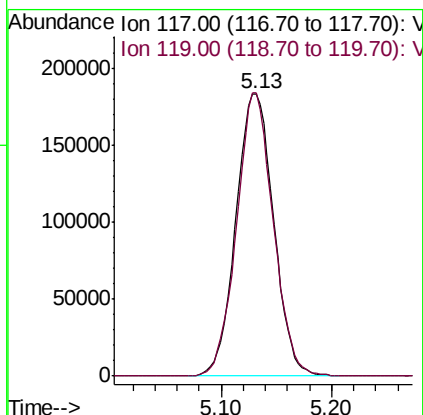
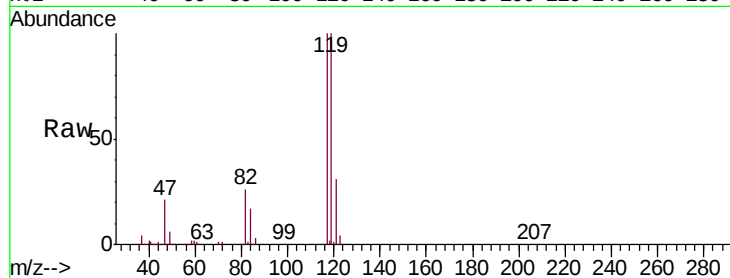




#31
Carbon tetrachloride
Concen: 43.311 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

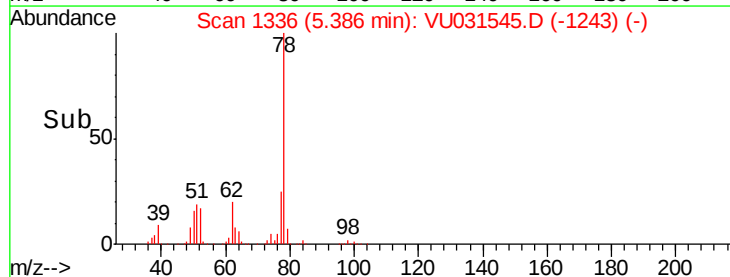
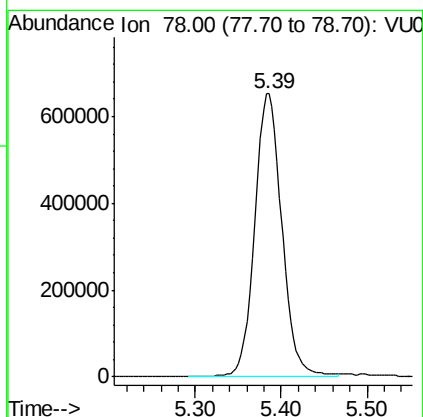
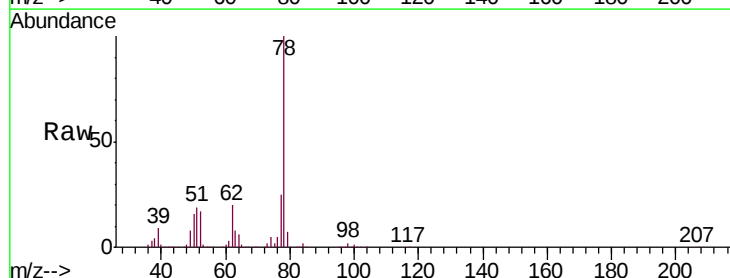
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

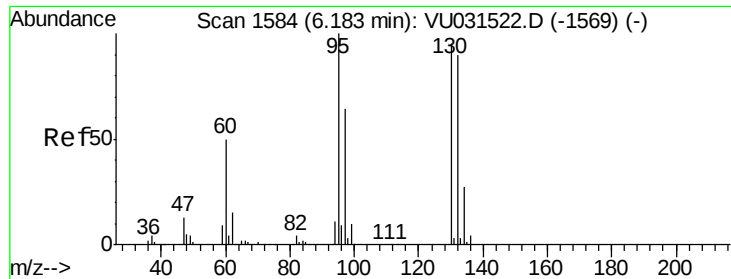
Tgt Ion:117 Resp: 434720
Ion Ratio Lower Upper
117 100
119 97.5 76.6 114.8



#33
Benzene
Concen: 46.664 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

Tgt Ion: 78 Resp: 1437957

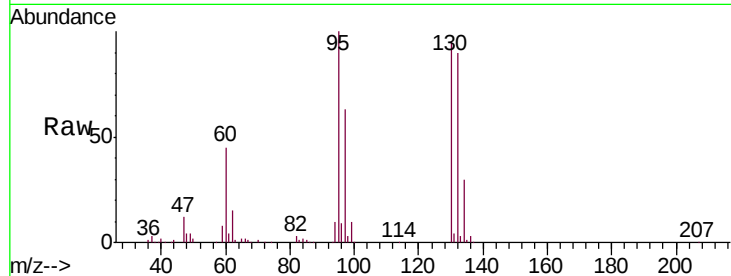




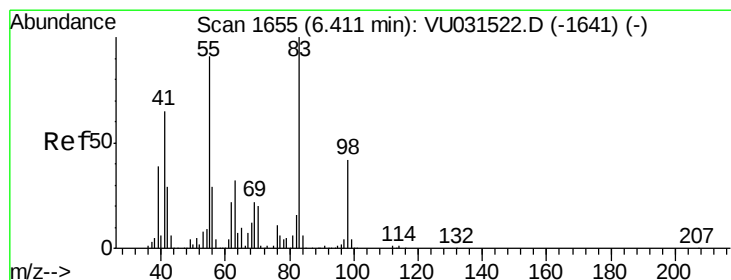
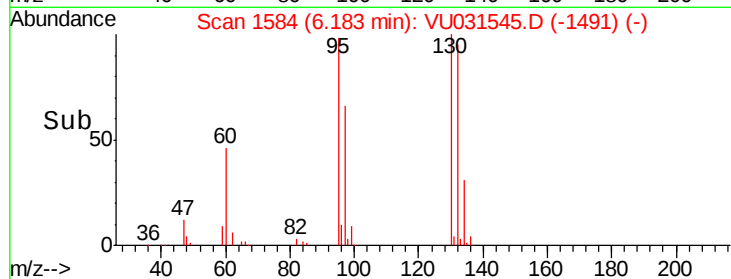
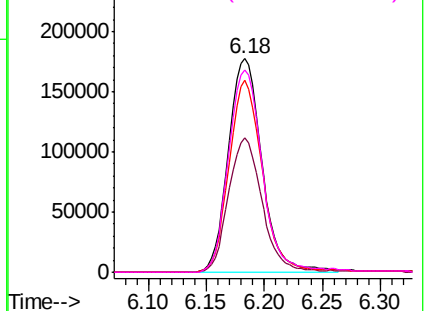
#34
 Trichloroethene
 Concen: 47.709 ug/L
 RT: 6.18 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VU031545.D
 Acq: 26 Apr 2019 20:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:	95	Resp:	356371
Ion	Ratio	Lower	Upper
95	100		
97	62.7	44.8	83.2
132	89.8	63.1	117.1
130	94.5	66.5	123.5

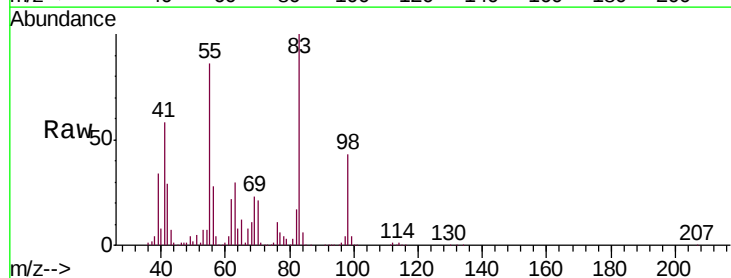


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

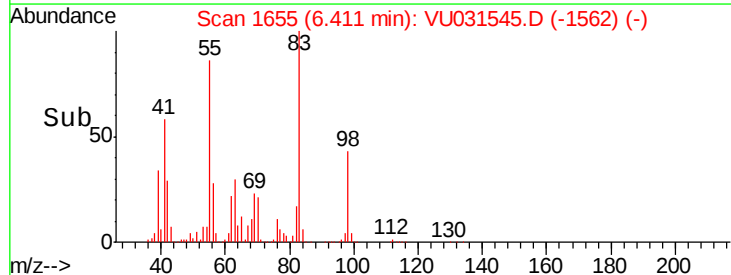
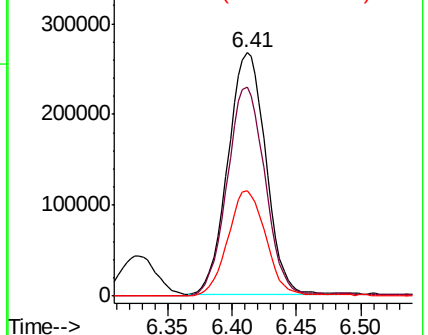


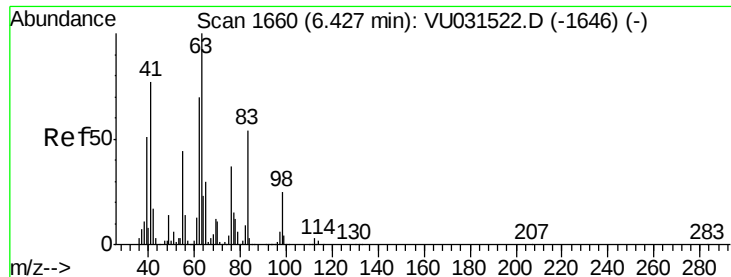
#35
 Methylcyclohexane
 Concen: 48.567 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU031545.D
 Acq: 26 Apr 2019 20:46

Tgt Ion:	83	Resp:	543683
Ion	Ratio	Lower	Upper
83	100		
55	87.0	73.0	109.4
98	43.5	35.3	52.9



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

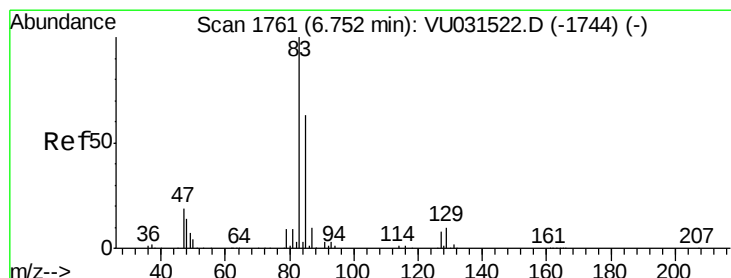
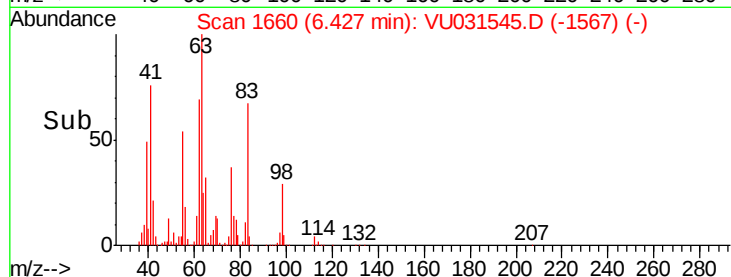
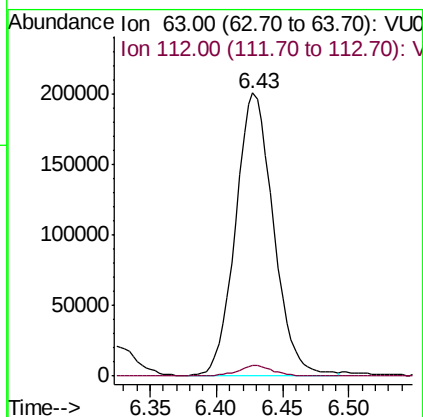
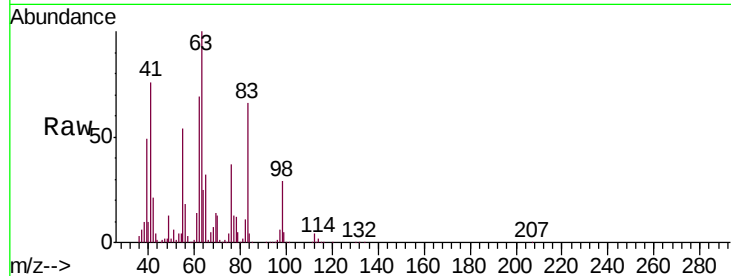




#37
 1,2-Dichloropropane
 Concen: 45.114 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031545.D
 Acq: 26 Apr 2019 20:46

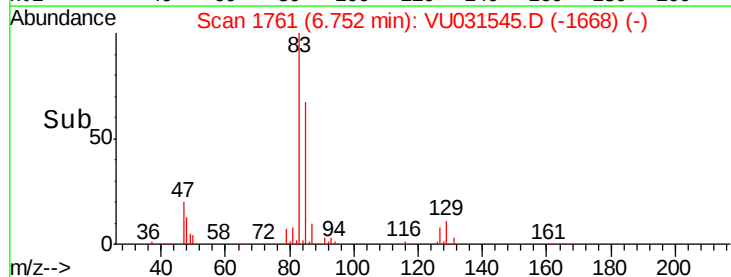
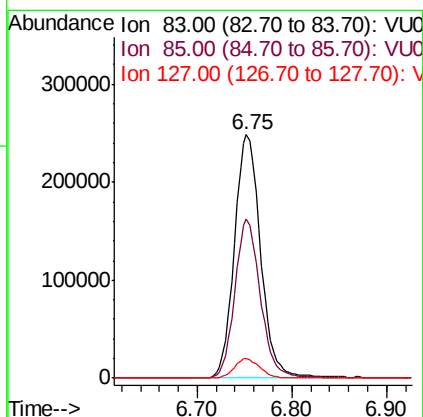
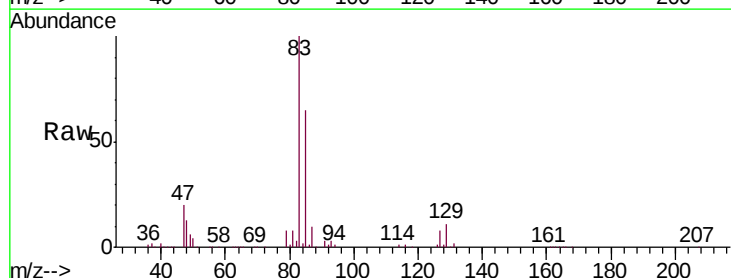
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

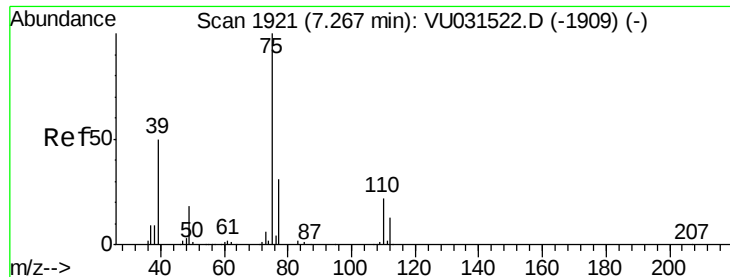
Tgt Ion: 63 Resp: 394661
 Ion Ratio Lower Upper
 63 100
 112 3.6 2.7 4.1



#38
 Bromodichloromethane
 Concen: 44.883 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031545.D
 Acq: 26 Apr 2019 20:46

Tgt Ion: 83 Resp: 476075
 Ion Ratio Lower Upper
 83 100
 85 65.3 43.7 81.1
 127 8.0 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 51.334 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

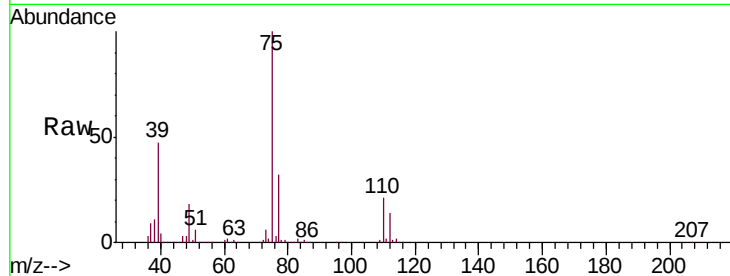
VSTD05050

Tgt Ion: 75 Resp: 593401

Ion Ratio Lower Upper

75 100

77 31.6 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031522.D (-1909) (-)

Ion 77.00 (76.70 to 77.70): VU031522.D (-1909) (-)

7.27

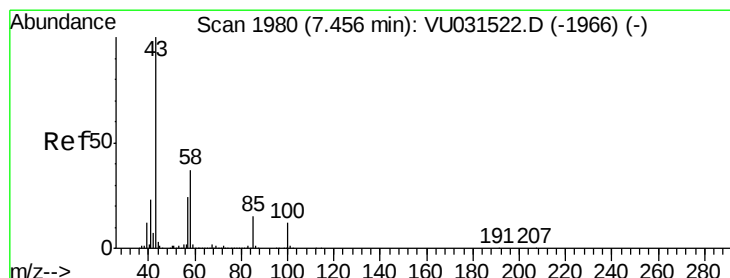
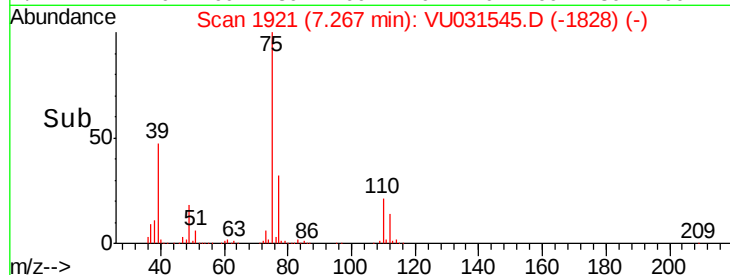
300000

200000

100000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 96.672 ug/L

RT: 7.46 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

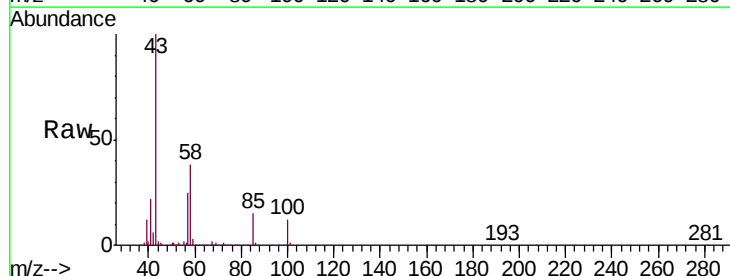
Tgt Ion: 43 Resp: 1301135

Ion Ratio Lower Upper

43 100

58 38.4 30.1 45.1

100 12.3 9.6 14.4



Abundance Ion 43.00 (42.70 to 43.70): VU031522.D (-1966) (-)

Ion 58.00 (57.70 to 58.70): VU031522.D (-1966) (-)

Ion 100.00 (99.70 to 100.70): VU031522.D (-1966) (-)

7.46

1000000

800000

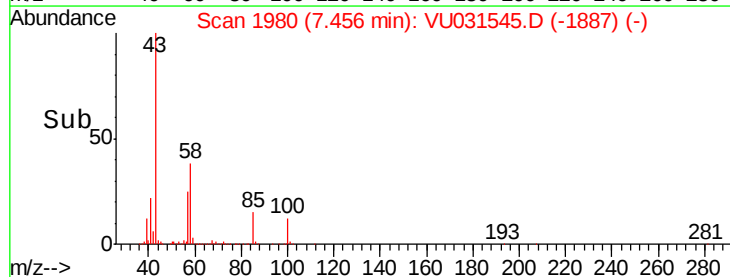
600000

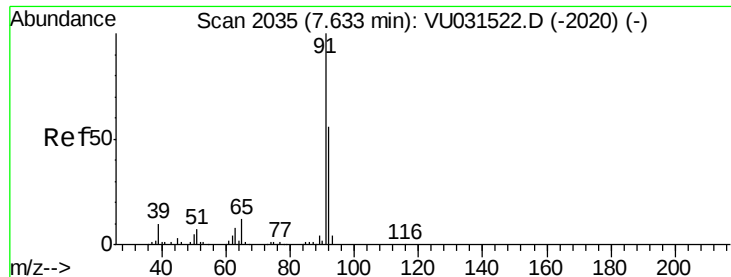
400000

200000

0

Time-->





#42

Toluene

Concen: 48.678 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

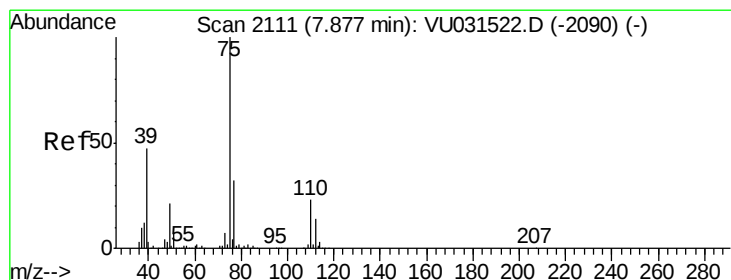
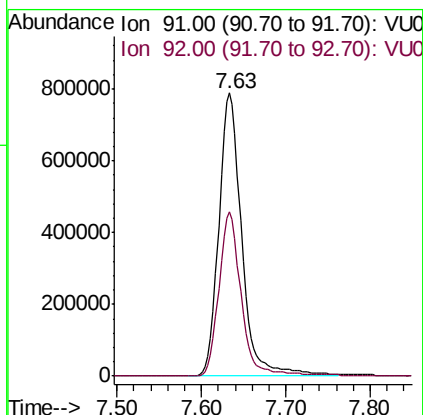
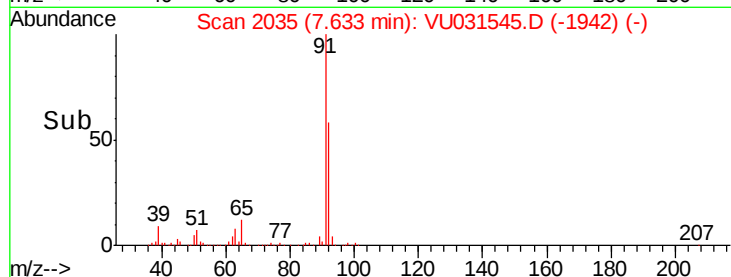
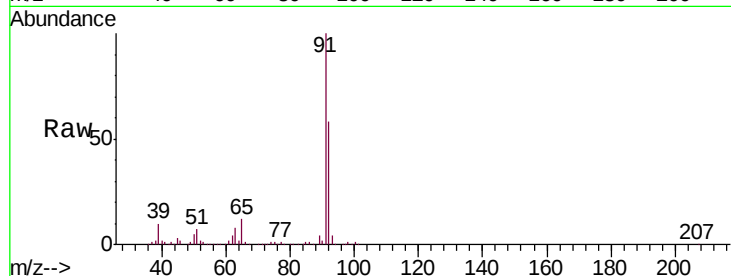
VSTD05050

Tgt Ion: 91 Resp: 1494224

Ion Ratio Lower Upper

91 100

92 57.9 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 48.272 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031545.D

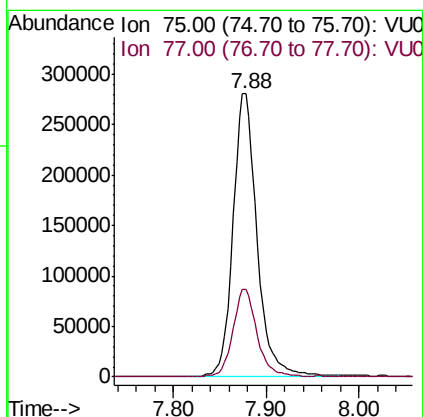
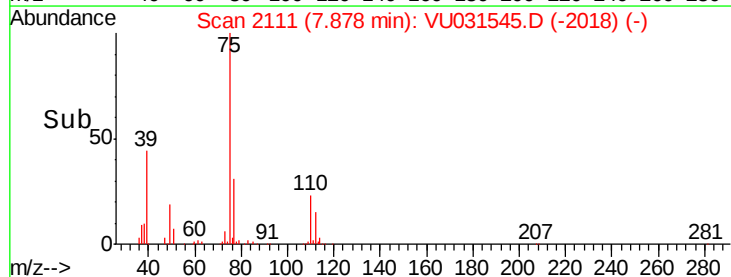
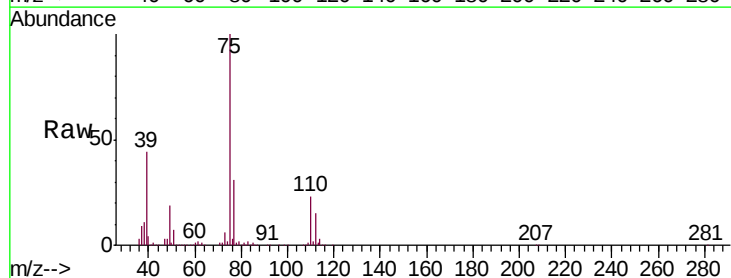
Acq: 26 Apr 2019 20:46

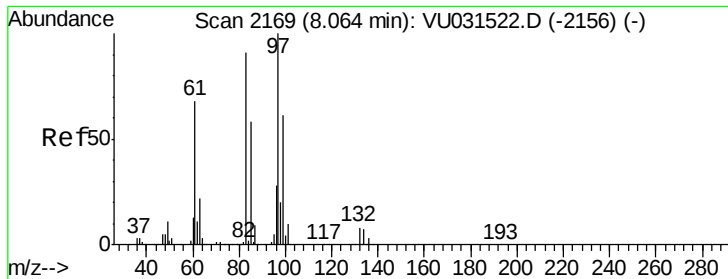
Tgt Ion: 75 Resp: 506106

Ion Ratio Lower Upper

75 100

77 30.8 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 47.744 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. -0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tgt Ion: 97 Resp: 344329

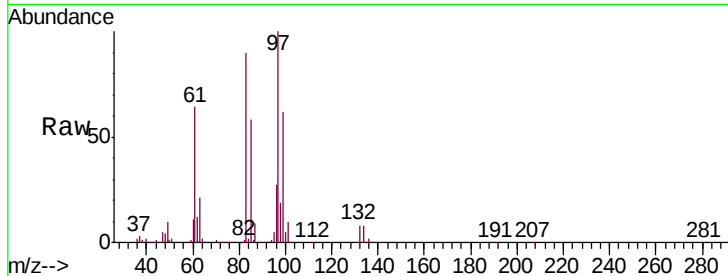
Ion Ratio Lower Upper

97 100

99 62.3 43.0 80.0

83 90.5 63.6 118.2

85 57.6 40.5 75.3

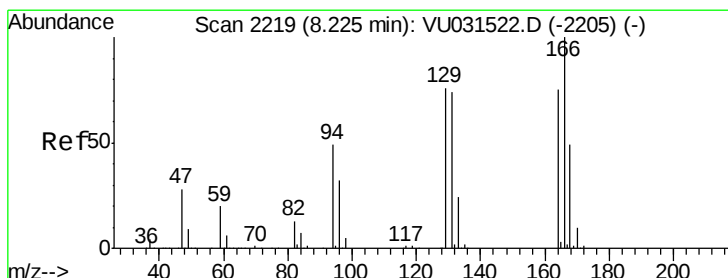
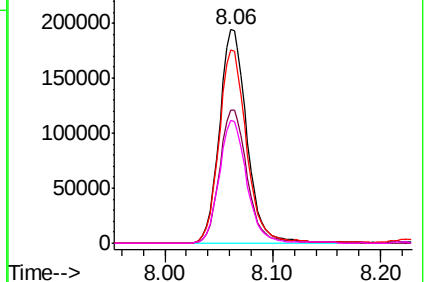
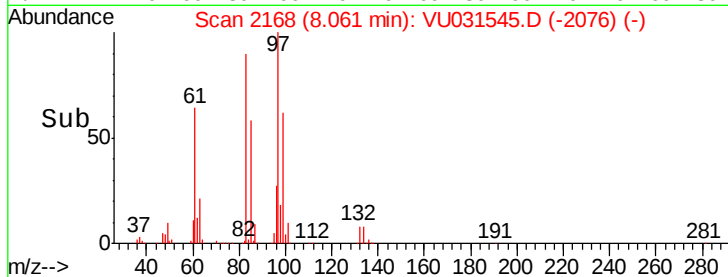


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 47.901 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Tgt Ion: 164 Resp: 243928

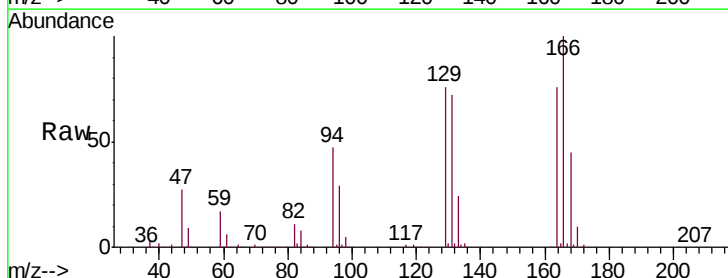
Ion Ratio Lower Upper

164 100

129 100.3 71.5 132.9

131 94.6 69.0 128.2

166 131.4 93.7 173.9

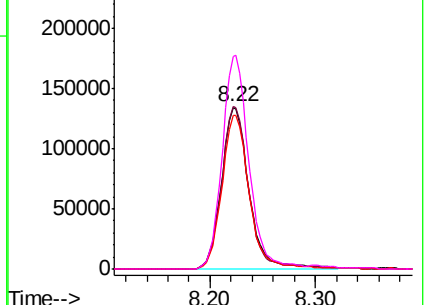
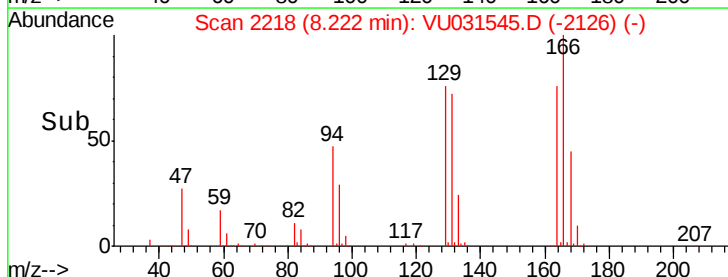


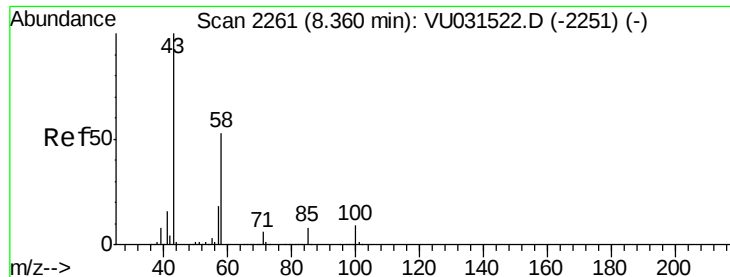
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

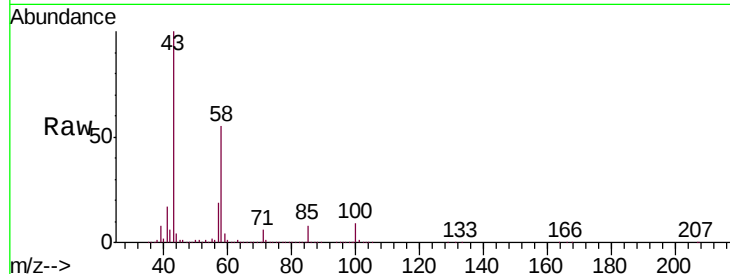




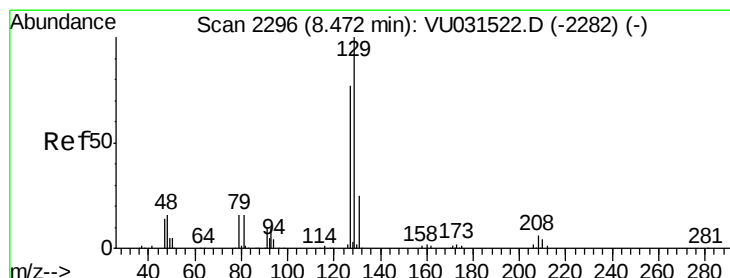
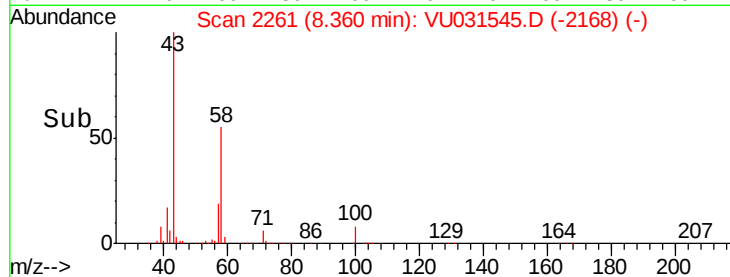
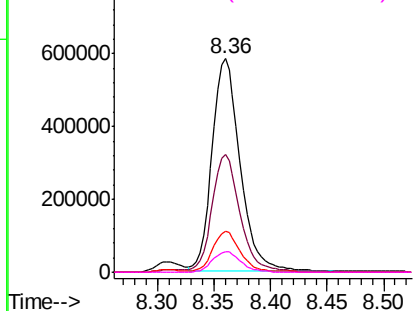
#48
2-Hexanone
Concen: 93.001 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion: 43 Resp: 1012386
Ion Ratio Lower Upper
43 100
58 54.1 42.1 63.1
57 18.8 14.6 22.0
100 9.6 7.2 10.8

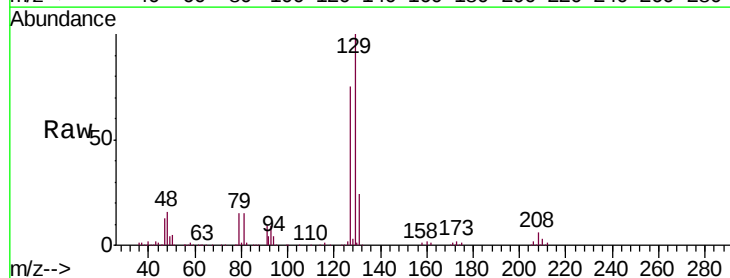


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

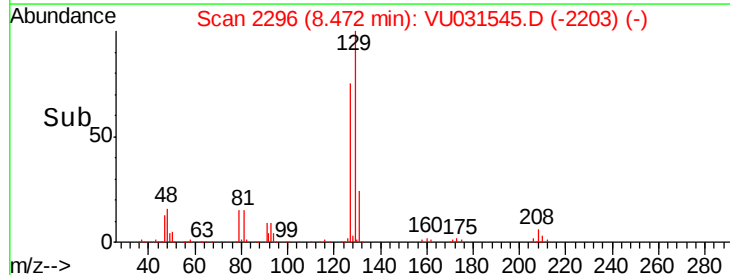
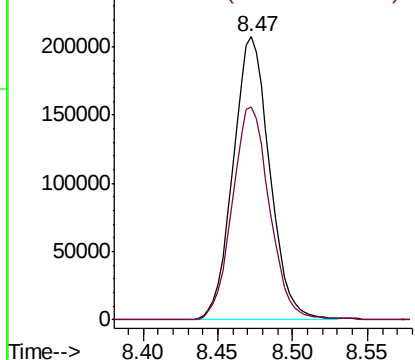


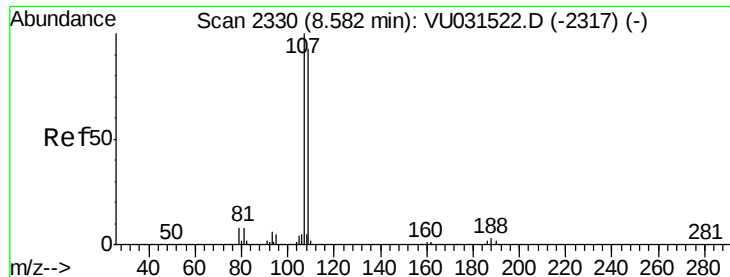
#49
Dibromochloromethane
Concen: 47.048 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

Tgt Ion: 129 Resp: 353041
Ion Ratio Lower Upper
129 100
127 75.5 54.0 100.2



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

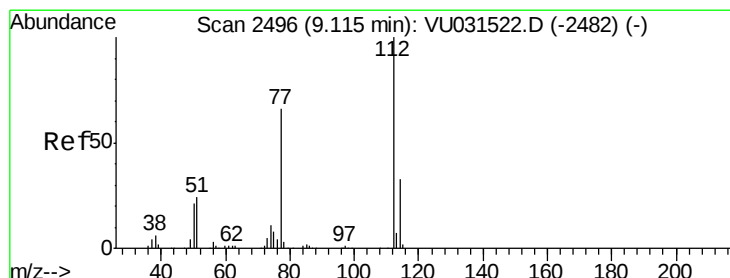
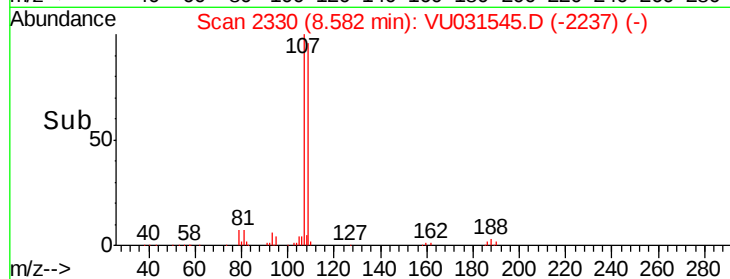
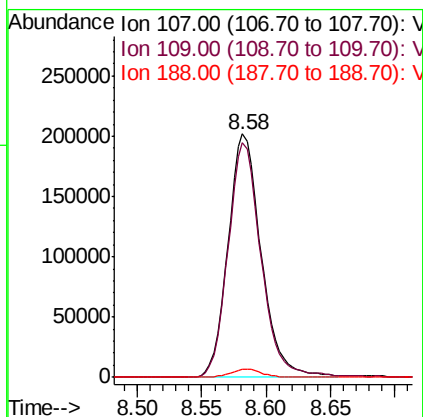
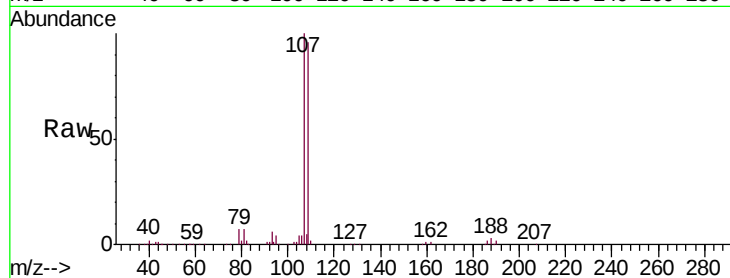




#50
1,2-Dibromoethane
Concen: 47.400 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

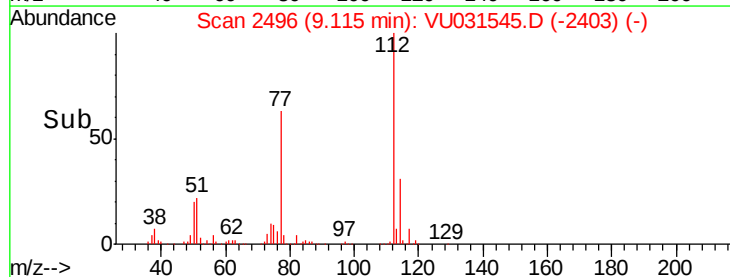
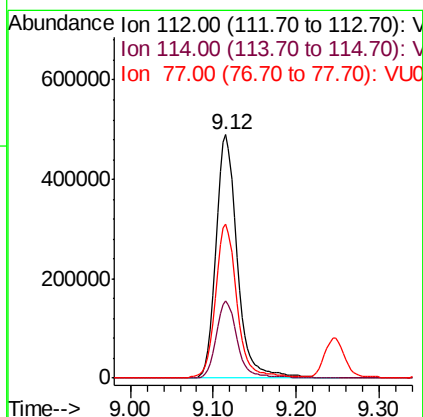
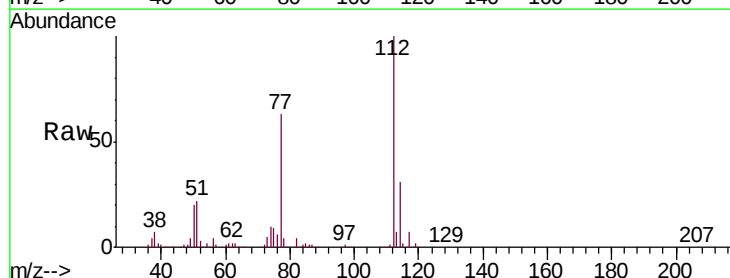
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

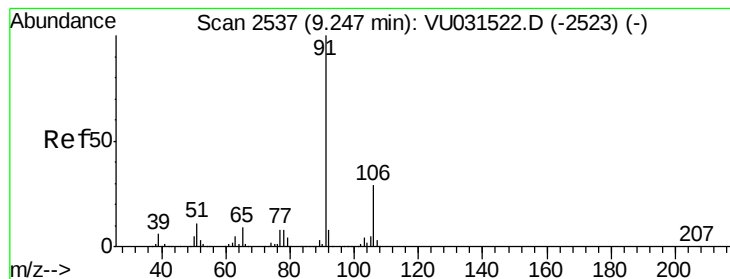
Tgt Ion:107 Resp: 361036
Ion Ratio Lower Upper
107 100
109 96.3 64.9 120.5
188 3.1 2.4 3.6



#51
Chlorobenzene
Concen: 47.956 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031545.D
Acq: 26 Apr 2019 20:46

Tgt Ion:112 Resp: 869885
Ion Ratio Lower Upper
112 100
114 31.5 23.3 43.3
77 63.2 53.0 79.4





#52

Ethylbenzene

Concen: 49.647 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

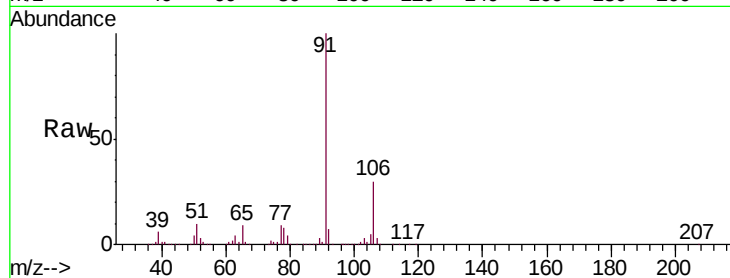
VSTD05050

Tgt Ion: 91 Resp: 1580825

Ion Ratio Lower Upper

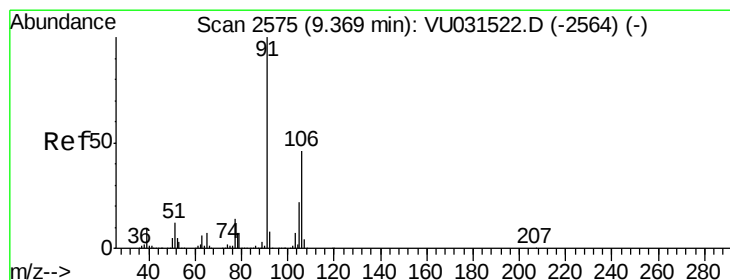
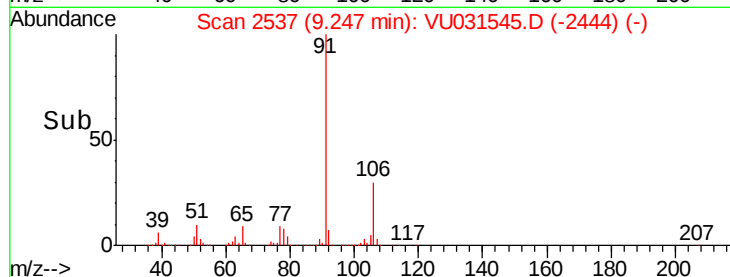
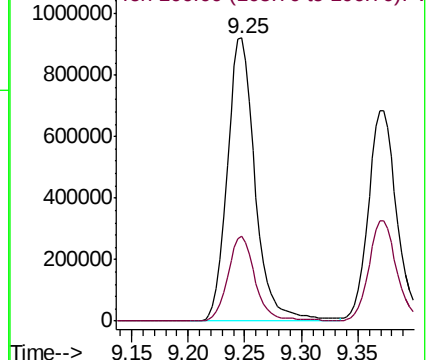
91 100

106 29.8 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 51.708 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031545.D

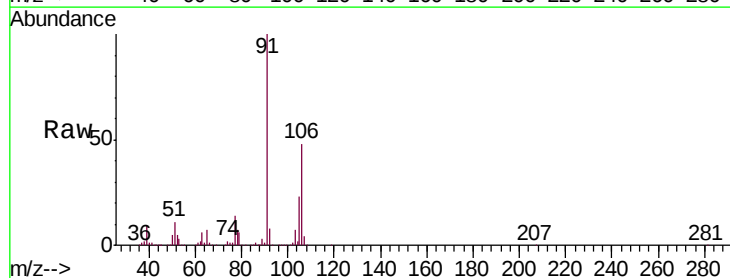
Acq: 26 Apr 2019 20:46

Tgt Ion: 106 Resp: 573641

Ion Ratio Lower Upper

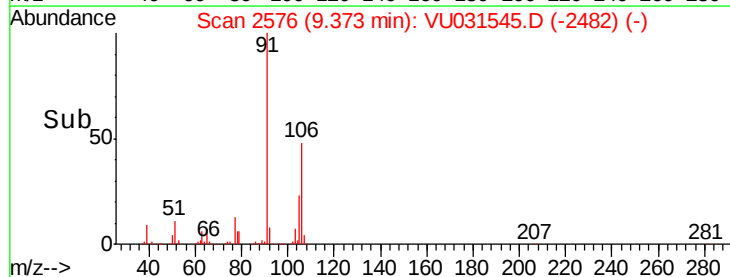
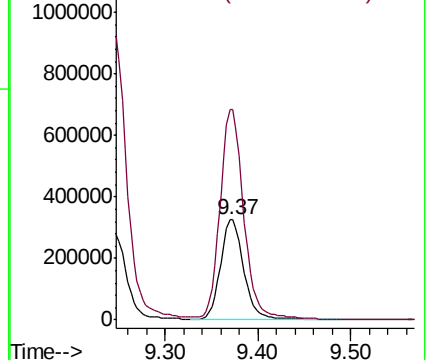
106 100

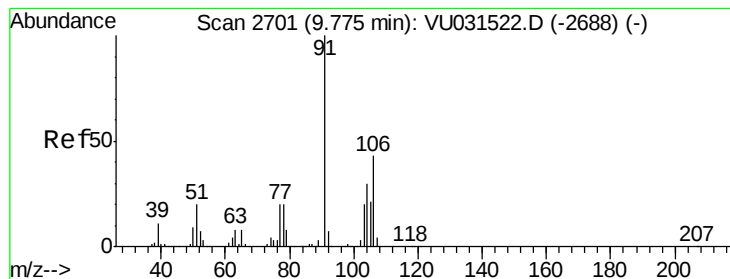
91 210.1 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54

o-xylene

Concen: 51.996 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

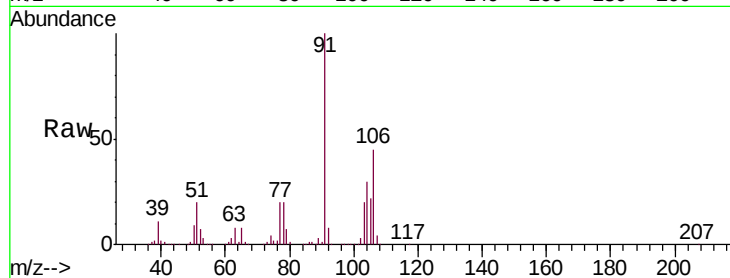
VSTD05050

Tgt Ion:106 Resp: 571876

Ion Ratio Lower Upper

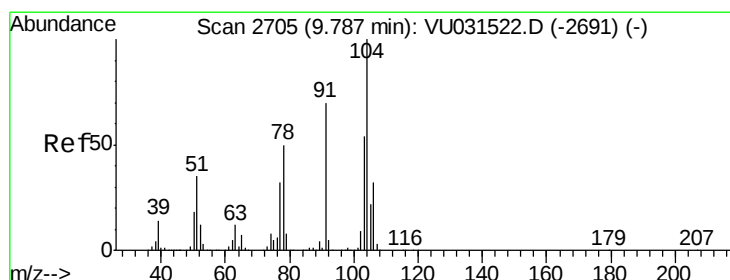
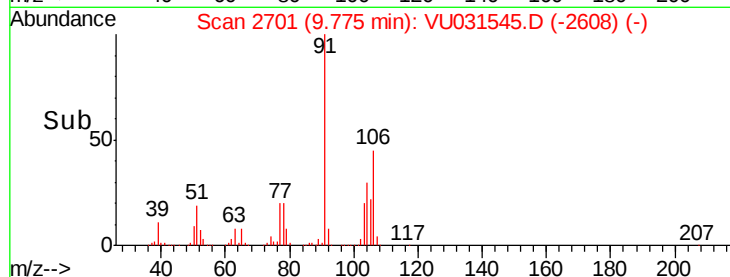
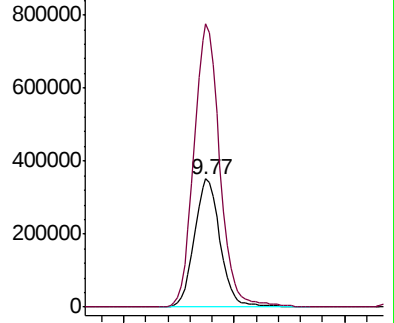
106 100

91 221.3 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.785 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031545.D

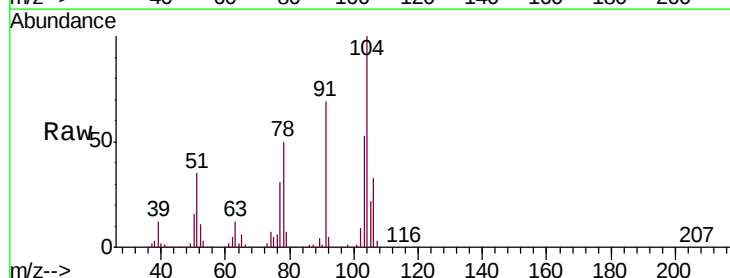
Acq: 26 Apr 2019 20:46

Tgt Ion:104 Resp: 973079

Ion Ratio Lower Upper

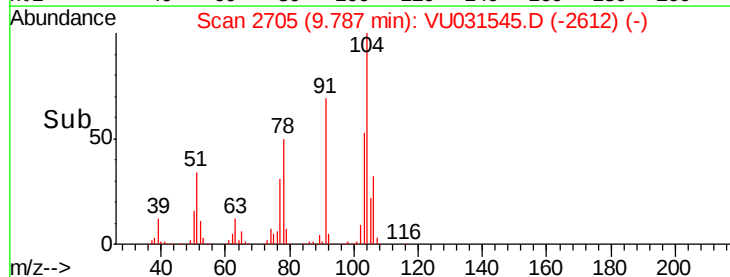
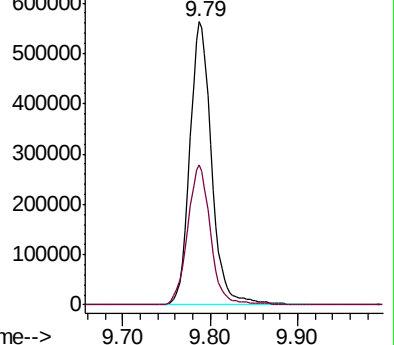
104 100

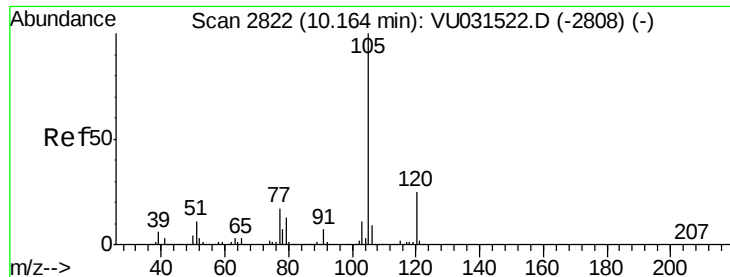
78 49.6 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.187 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

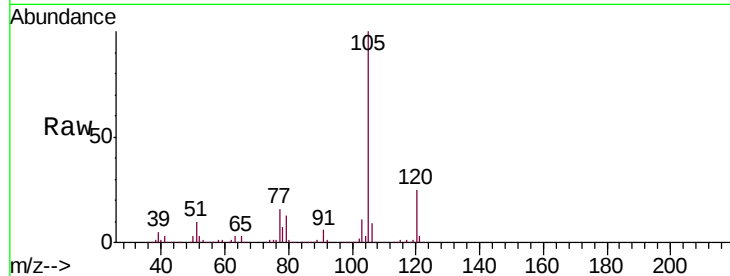
Tgt Ion:105 Resp: 1480396

Ion Ratio Lower Upper

105 100

120 25.3 20.1 30.1

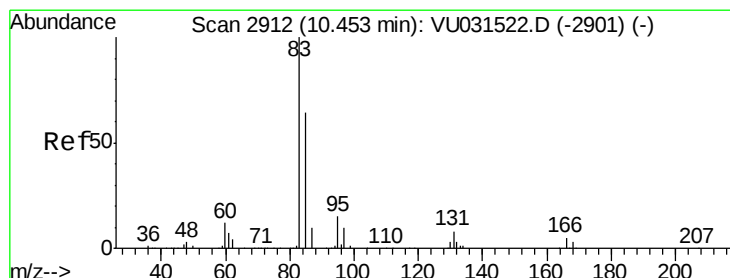
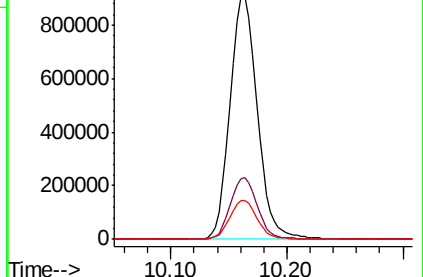
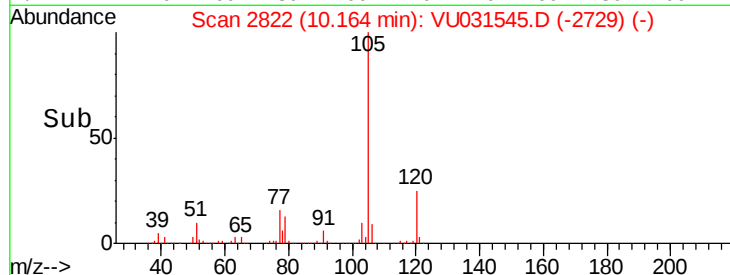
77 16.1 13.8 20.6



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: 46.808 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

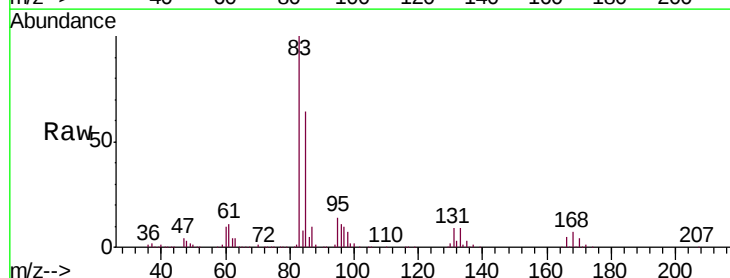
Tgt Ion: 83 Resp: 599021

Ion Ratio Lower Upper

83 100

85 63.9 46.0 85.4

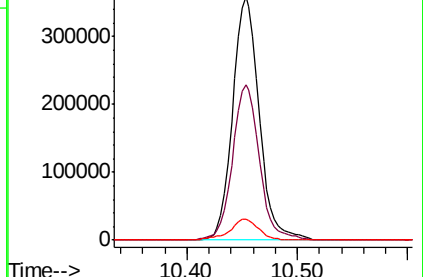
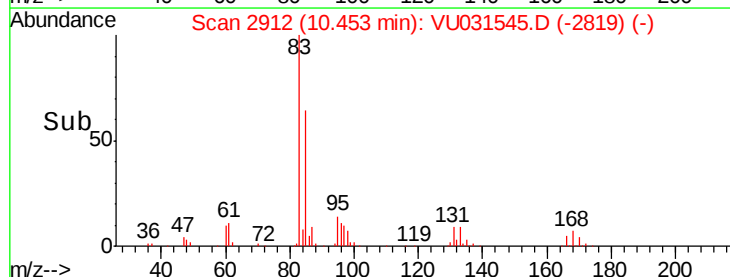
131 8.5 7.3 10.9

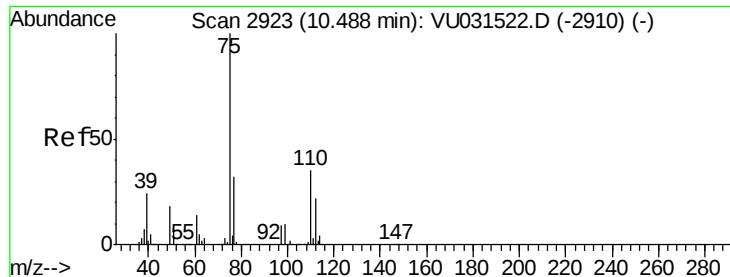


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.511 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

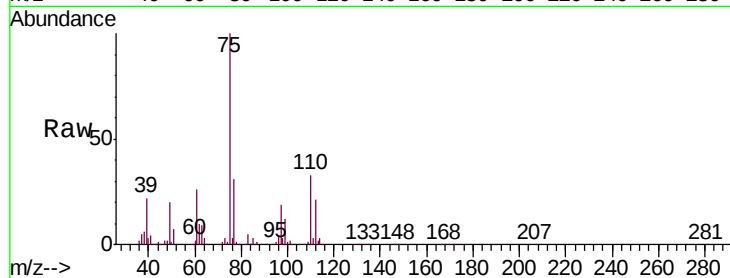
VSTD05050

Tgt Ion: 75 Resp: 482412

Ion Ratio Lower Upper

75 100

77 31.6 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU031522.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031522.D (-2910) (-)

10.49

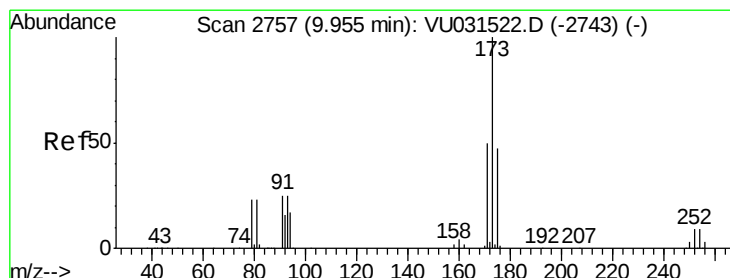
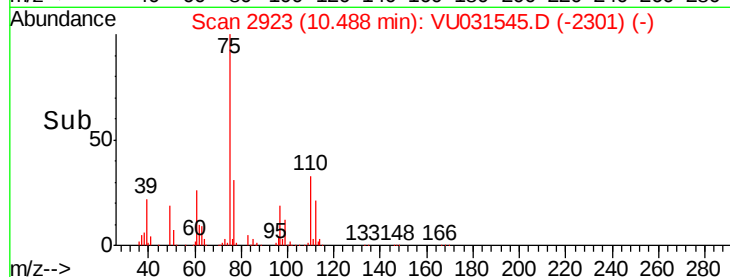
300000

200000

100000

0

Time-->



#61

Bromoform

Concen: 45.613 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

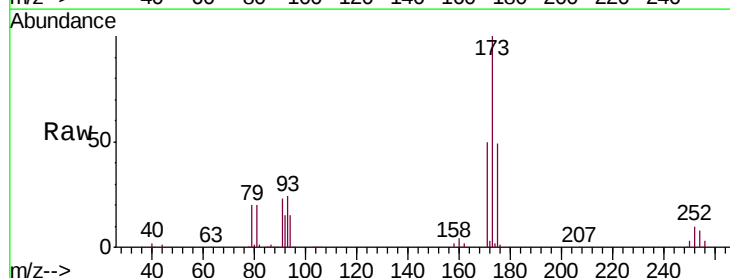
Tgt Ion: 173 Resp: 255062

Ion Ratio Lower Upper

173 100

175 48.8 38.3 57.5

254 8.4 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VU031522.D (-2743) (-)

Ion 175.00 (174.70 to 175.70): VU031522.D (-2743) (-)

Ion 254.00 (253.70 to 254.70): VU031522.D (-2743) (-)

9.95

200000

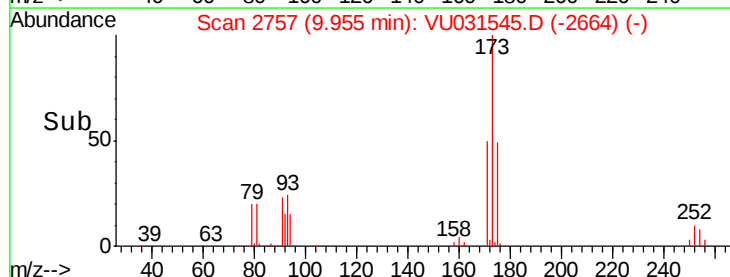
150000

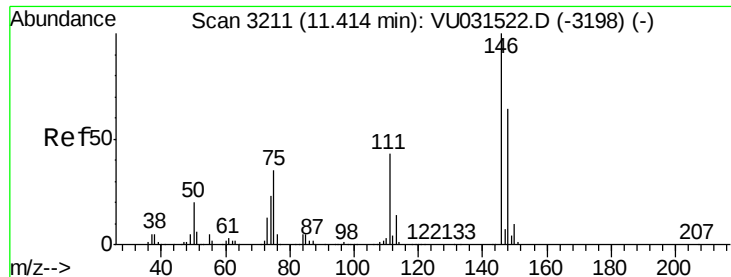
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.772 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

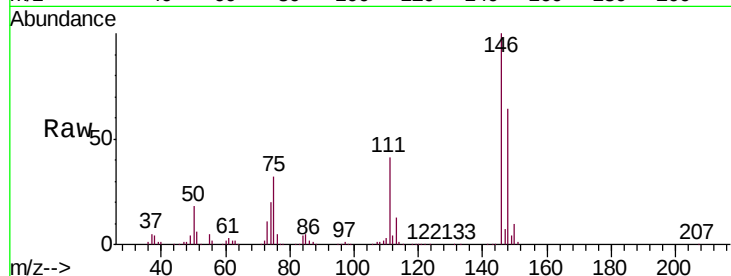
Tgt Ion:146 Resp: 621502

Ion Ratio Lower Upper

146 100

111 41.4 29.8 55.4

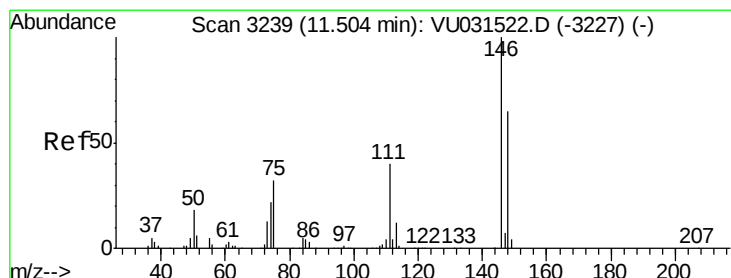
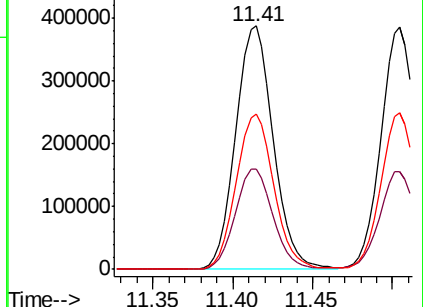
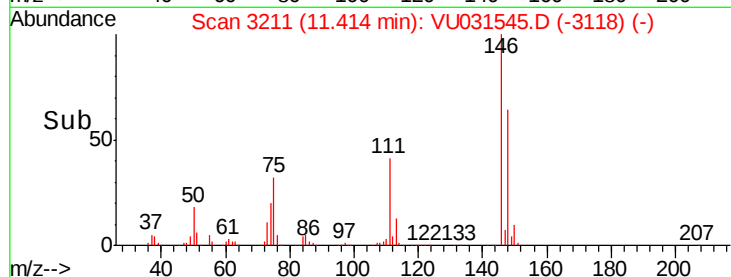
148 63.8 45.1 83.9



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: 47.166 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

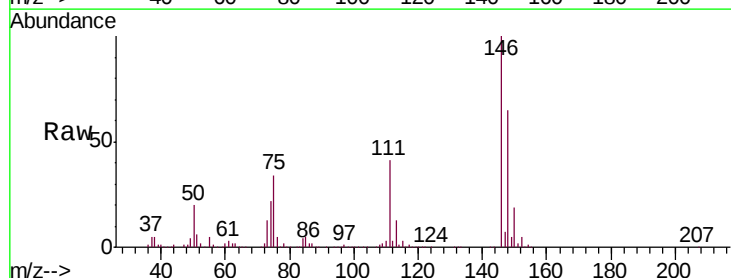
Tgt Ion:146 Resp: 609944

Ion Ratio Lower Upper

146 100

111 40.6 28.2 52.4

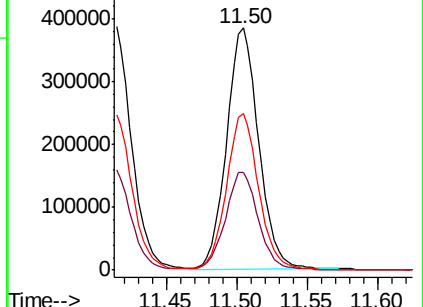
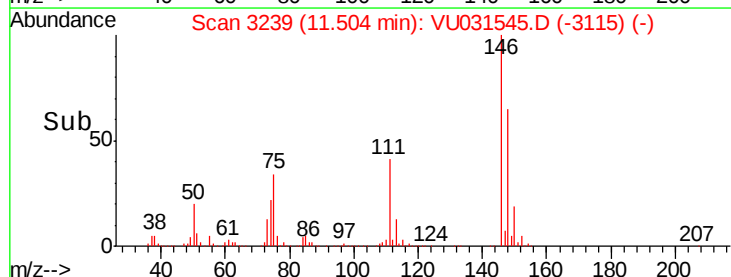
148 64.6 45.4 84.4

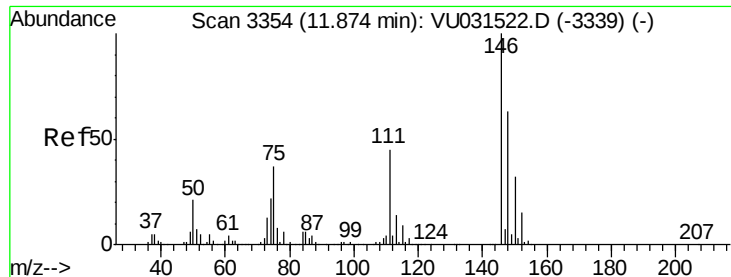


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

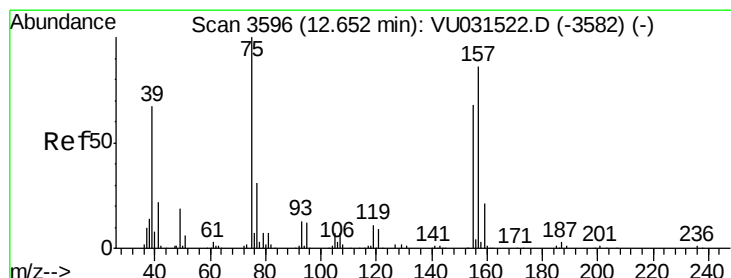
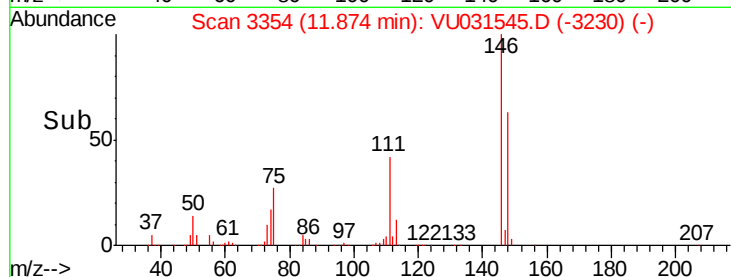
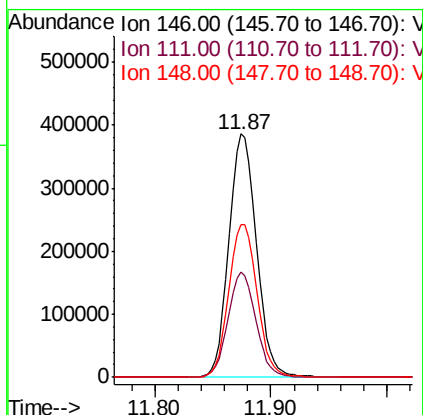
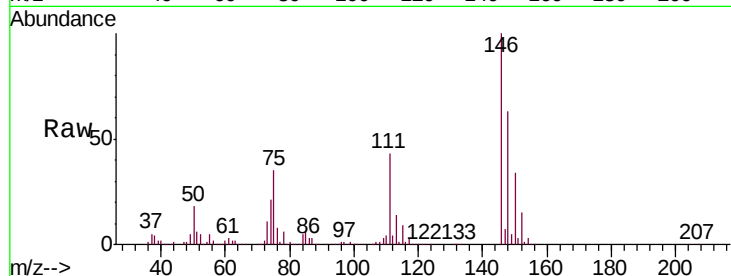




#65
 1,2-Dichlorobenzene
 Concen: 47.650 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031545.D
 Acq: 26 Apr 2019 20:46

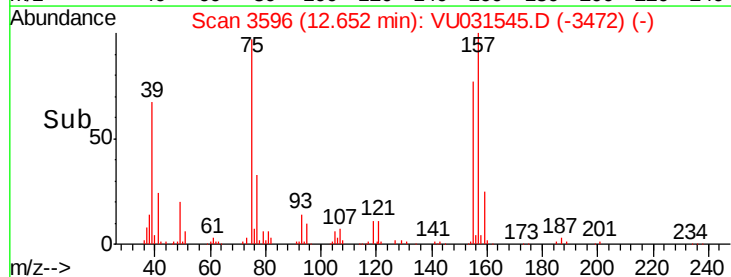
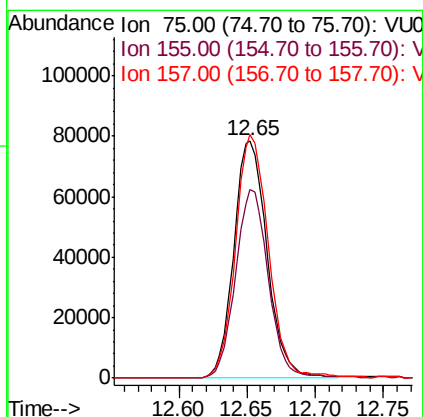
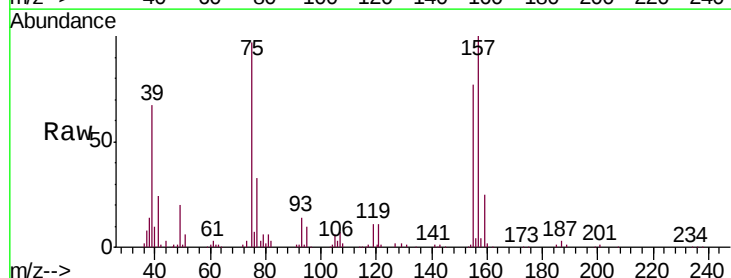
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

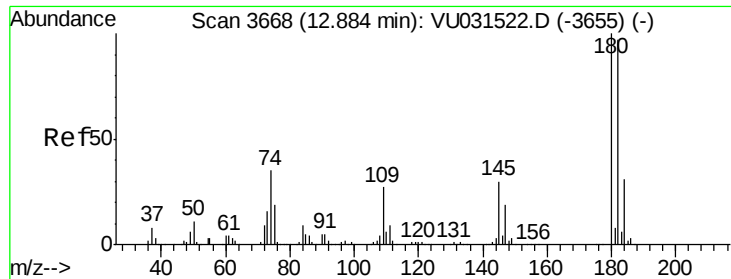
Tgt Ion: 146 Resp: 632366
 Ion Ratio Lower Upper
 146 100
 111 43.2 35.9 53.9
 148 62.9 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 43.197 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031545.D
 Acq: 26 Apr 2019 20:46

Tgt Ion: 75 Resp: 133049
 Ion Ratio Lower Upper
 75 100
 155 79.5 54.0 81.0
 157 102.7 69.1 103.7

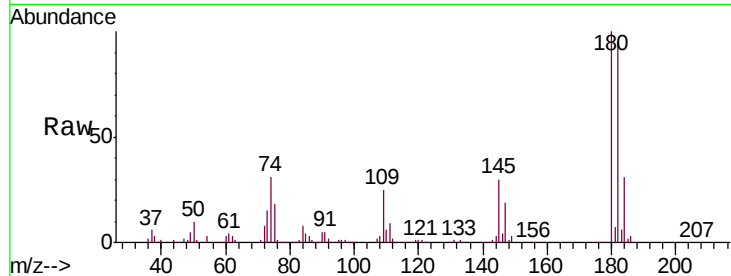




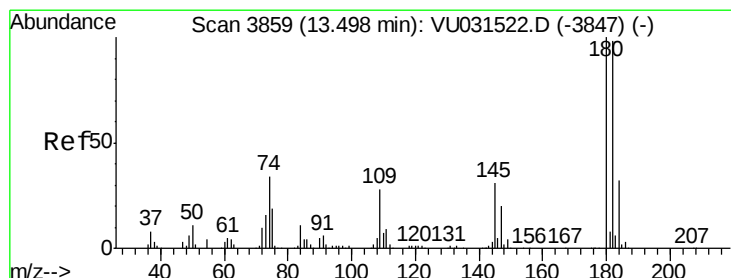
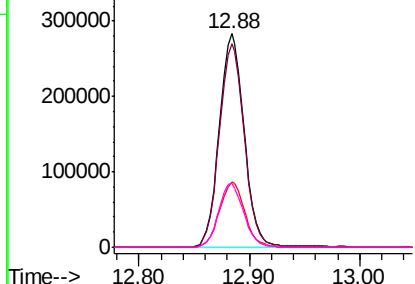
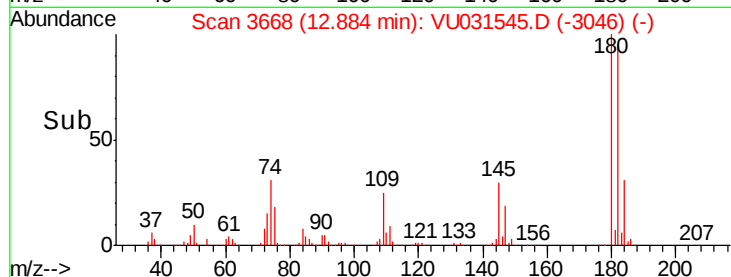
#67
 1,3,5-Trichlorobenzene
 Concen: 47.414 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031545.D
 Acq: 26 Apr 2019 20:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:180 Resp: 443444
 Ion Ratio Lower Upper
 180 100
 182 94.9 77.3 115.9
 184 30.9 24.4 36.6
 145 30.2 23.8 35.8

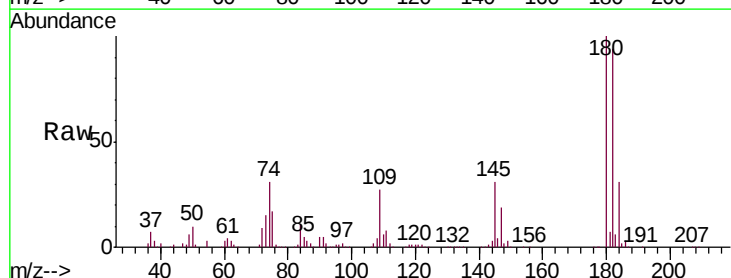


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

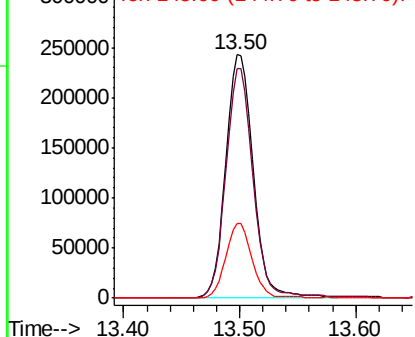
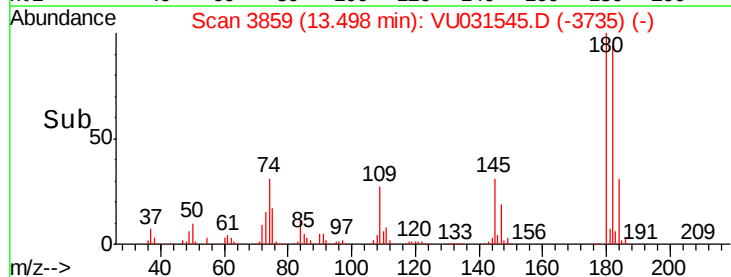


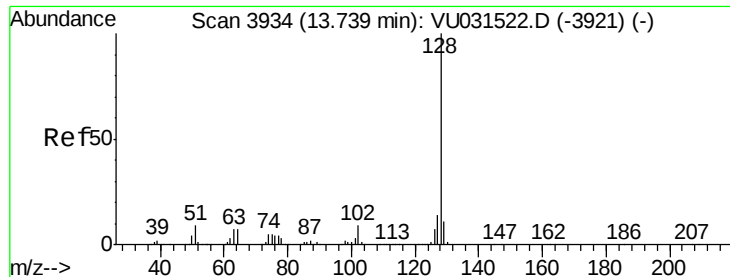
#68
 1,2,4-trichlorobenzene
 Concen: 53.592 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031545.D
 Acq: 26 Apr 2019 20:46

Tgt Ion:180 Resp: 396801
 Ion Ratio Lower Upper
 180 100
 182 92.3 75.8 113.8
 145 29.2 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: 58.277 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

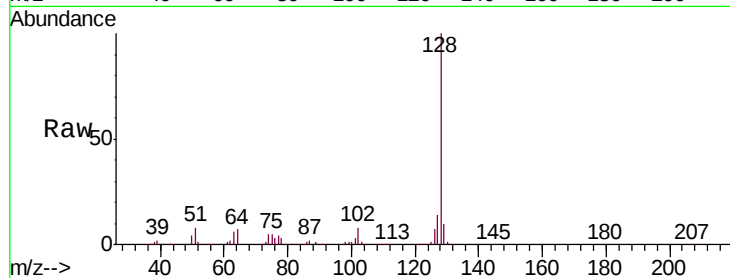
Tgt Ion:128 Resp: 1471147

Ion Ratio Lower Upper

128 100

127 13.3 10.6 15.8

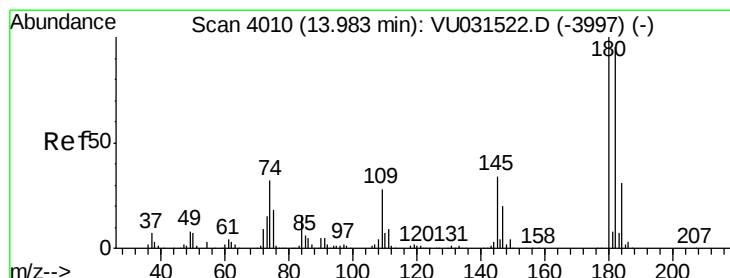
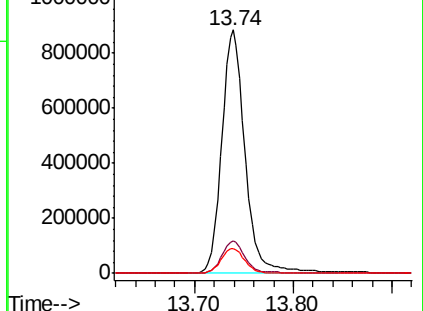
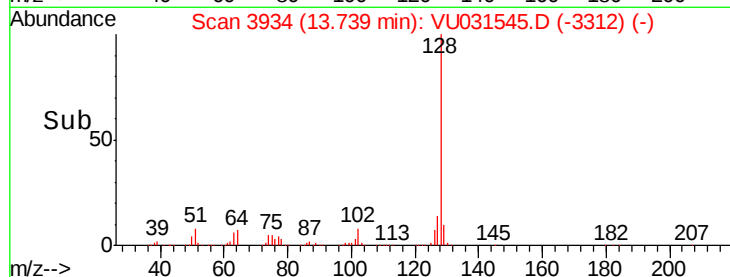
129 10.6 8.7 13.1



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: 49.148 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031545.D

Acq: 26 Apr 2019 20:46

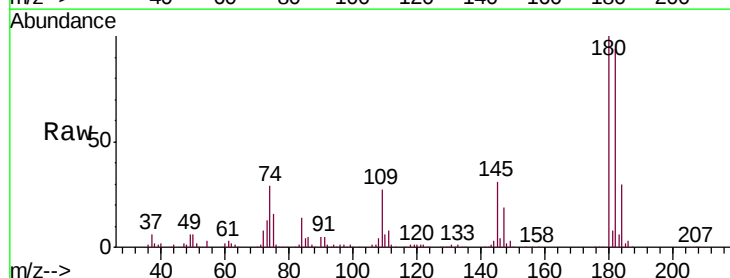
Tgt Ion:180 Resp: 414290

Ion Ratio Lower Upper

180 100

182 96.9 76.1 114.1

145 31.9 26.0 39.0



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

