

Data File : VU033253.D
Acq On : 15 Jul 2019 14:07
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Quant Time: Jul 16 01:49:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 16 01:46:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	308957	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	309191	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	161885	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	102627	43.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.76%
7) Chloroethane-d5	1.67	69	91347	45.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.44%
11) 1,1-Dichloroethene-d2	2.26	63	205704	48.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.98%
21) 2-Butanone-d5	4.15	46	158428	106.91	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.91%
24) Chloroform-d	4.62	84	194139	49.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.06%
26) 1,2-Dichloroethane-d4	5.28	65	123024	48.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.88%
32) Benzene-d6	5.32	84	372531	49.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.22%
36) 1,2-Dichloropropane-d6	6.31	67	119151	49.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.08%
41) Toluene-d8	7.55	98	350947	49.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.12%
43) trans-1,3-Dichloropropene-	7.83	79	60279	50.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.18%
47) 2-Hexanone-d5	8.29	63	114282	104.33	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.33%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	186753	50.78	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.56%
64) 1,2-Dichlorobenzene-d4	11.85	152	144816	50.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.32%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	149743	48.908	ug/L 100
3) Chloromethane	1.32	50	152949	50.707	ug/L 99
5) Vinyl chloride	1.39	62	166348	47.713	ug/L 99
6) Bromomethane	1.61	94	107181	49.313	ug/L 99
8) Chloroethane	1.68	64	100505	47.661	ug/L 97
9) Trichlorofluoromethane	1.87	101	223285	48.704	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	112827	53.530	ug/L 98
12) 1,1-Dichloroethene	2.27	96	106079	51.440	ug/L 93
13) Acetone	2.31	43	170825	92.261	ug/L 99
14) Carbon disulfide	2.46	76	302625	47.982	ug/L 99
15) Methyl Acetate	2.60	43	122492	50.661	ug/L 99
16) Methylene chloride	2.68	84	115259	48.952	ug/L 98
17) trans-1,2-Dichloroethene	2.96	96	105513	49.506	ug/L 100
18) Methyl tert-butyl Ether	2.98	73	326623	49.649	ug/L 99
19) 1,1-Dichloroethane	3.42	63	202893	49.524	ug/L 99
20) cis-1,2-Dichloroethene	4.20	96	118208	49.171	ug/L 100
22) 2-Butanone	4.23	43	201002	97.723	ug/L 99

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Instrument :
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ClientSampleId :
VSTD05050

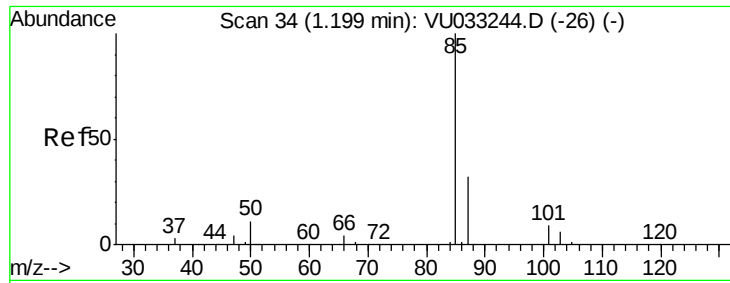
Quant Time: Jul 16 01:49:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 16 01:46:18 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	61505	49.963	ug/L	97
25) Chloroform	4.65	83	212009	48.657	ug/L	99
27) 1,2-Dichloroethane	5.38	62	167905	49.764	ug/L	98
29) Cyclohexane	4.97	56	173125	51.386	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	183751	50.940	ug/L	98
31) Carbon tetrachloride	5.11	117	161921	51.294	ug/L	100
33) Benzene	5.37	78	459452	50.955	ug/L	100
34) Trichloroethene	6.16	95	118754	50.359	ug/L	98
35) Methylcyclohexane	6.40	83	192929	53.408	ug/L	100
37) 1,2-Dichloropropane	6.41	63	121744	49.786	ug/L	100
38) Bromodichloromethane	6.74	83	160835	50.989	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	191711	51.133	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	331237	100.975	ug/L	99
42) Toluene	7.62	91	505035	51.952	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	175856	52.009	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	115856	50.095	ug/L	98
46) Tetrachloroethene	8.21	164	95126	52.109	ug/L	99
48) 2-Hexanone	8.34	43	273532	102.352	ug/L	99
49) Dibromochloromethane	8.46	129	130721	50.670	ug/L	97
50) 1,2-Dibromoethane	8.57	107	127632	50.615	ug/L	100
51) Chlorobenzene	9.10	112	317921	50.105	ug/L	98
52) Ethylbenzene	9.23	91	541937	52.098	ug/L	99
53) m,p-Xylene	9.36	106	207368	52.631	ug/L	100
54) o-xylene	9.76	106	206694	52.832	ug/L	98
55) Styrene	9.77	104	352601	53.160	ug/L	95
56) Isopropylbenzene	10.15	105	531354	52.780	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	203429	50.076	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	160132	50.302	ug/L	98
61) Bromoform	9.94	173	95189	48.146	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	248503	49.868	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	256814	49.289	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	252647	49.435	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	45322	46.464	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	191773	53.250	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	166965	53.078	ug/L	99
69) Naphthalene	13.73	128	535950	53.137	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	178674	52.318	ug/L	97

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

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#2

Dichlorodifluoromethane

Concen: 48.908 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

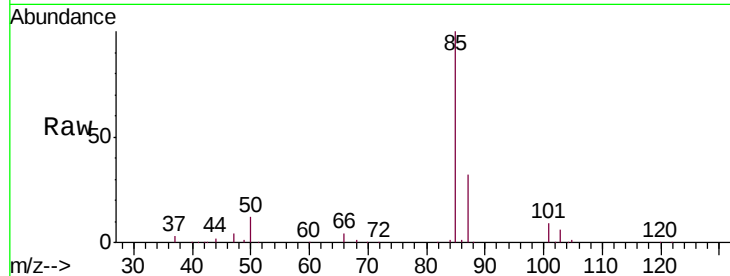
VSTD05050

Tgt Ion: 85 Resp: 149743

Ion Ratio Lower Upper

85 100

87 32.0 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033244.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033244.D (-26) (-)

1.20

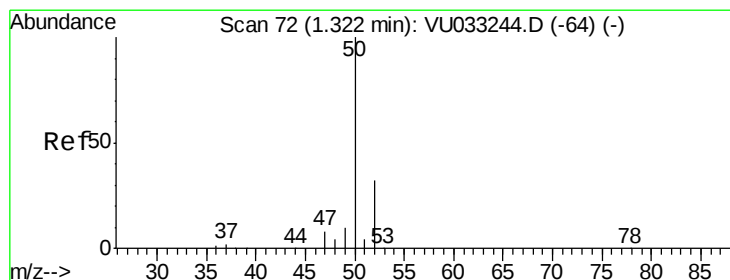
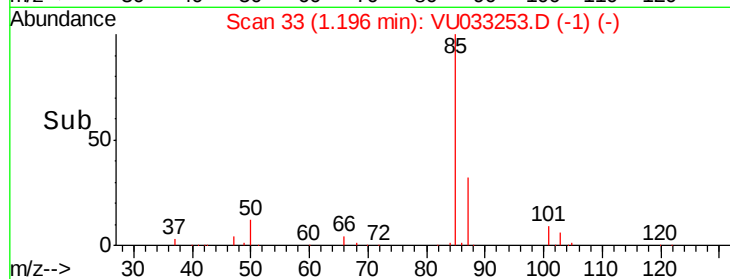
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 50.707 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033253.D

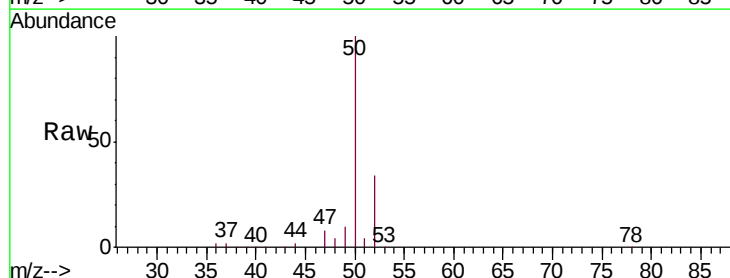
Acq: 15 Jul 2019 14:07

Tgt Ion: 50 Resp: 152949

Ion Ratio Lower Upper

50 100

52 33.5 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033244.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033244.D (-64) (-)

1.32

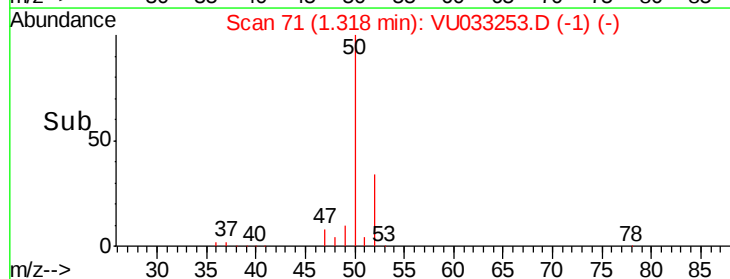
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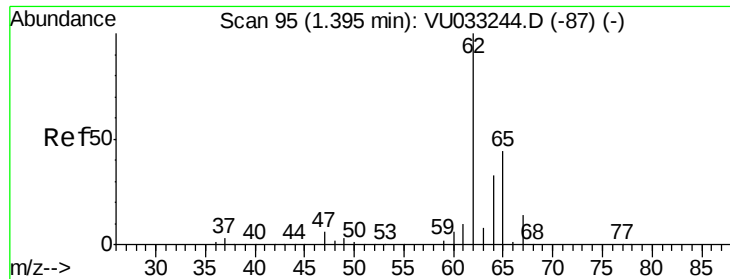
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 47.713 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

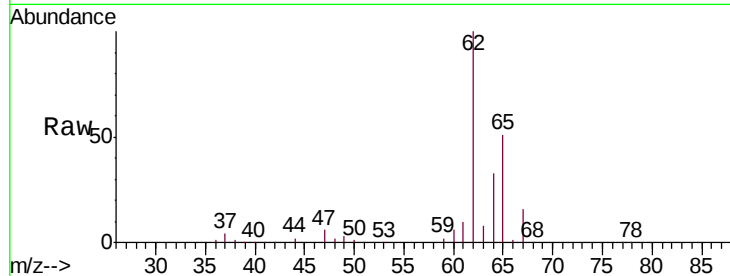
VSTD05050

Tgt Ion: 62 Resp: 166348

Ion Ratio Lower Upper

62 100

64 32.9 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.39

150000

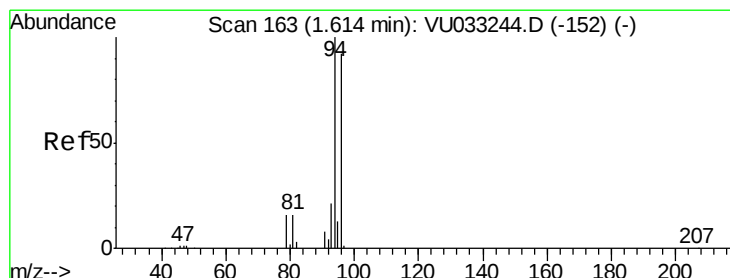
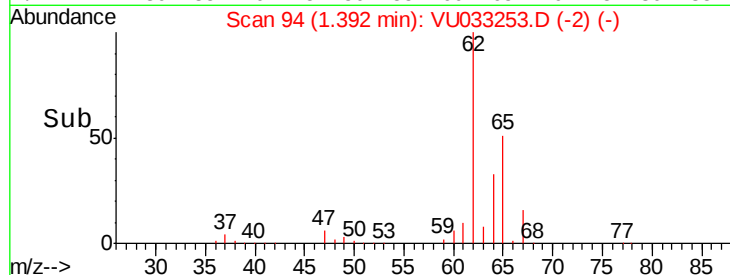
100000

50000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 49.313 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU033253.D

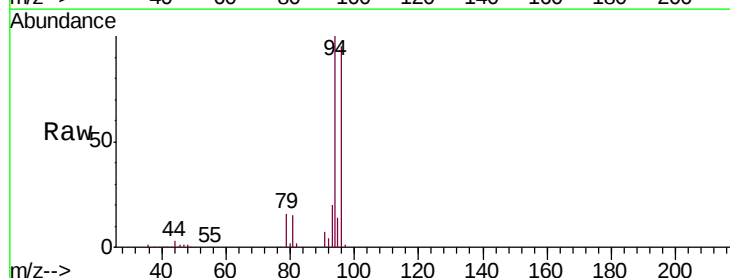
Acq: 15 Jul 2019 14:07

Tgt Ion: 94 Resp: 107181

Ion Ratio Lower Upper

94 100

96 95.5 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.61

100000

80000

60000

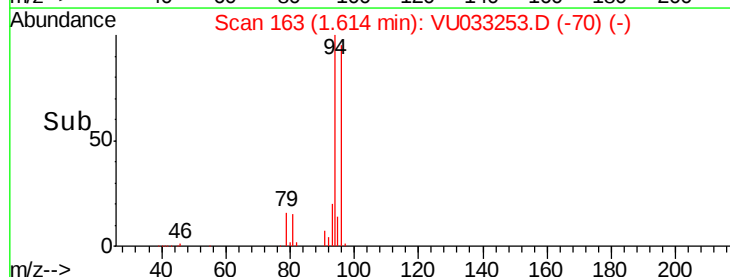
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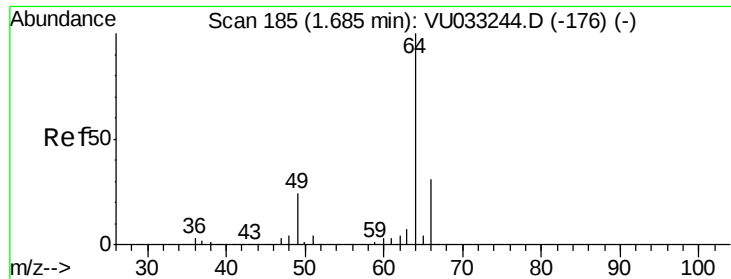
20000

0

Time-->

1.55 1.60 1.65 1.70





#8

Chloroethane

Concen: 47.661 ug/L

RT: 1.68 min Scan# 185

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

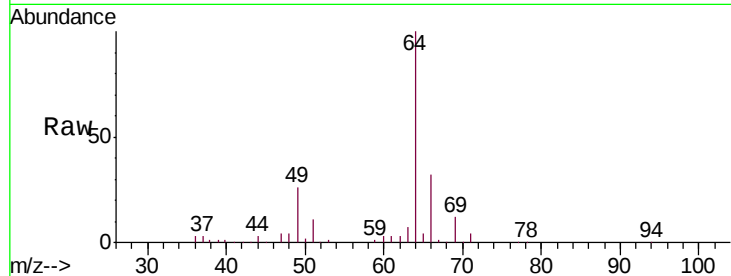
VSTD05050

Tgt Ion: 64 Resp: 100505

Ion Ratio Lower Upper

64 100

66 32.4 21.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VU033244.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033244.D (-176) (-)

1.68

80000

60000

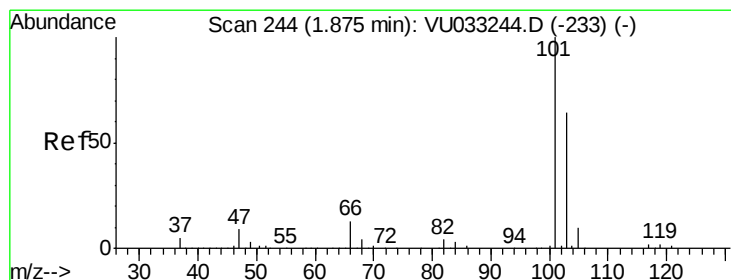
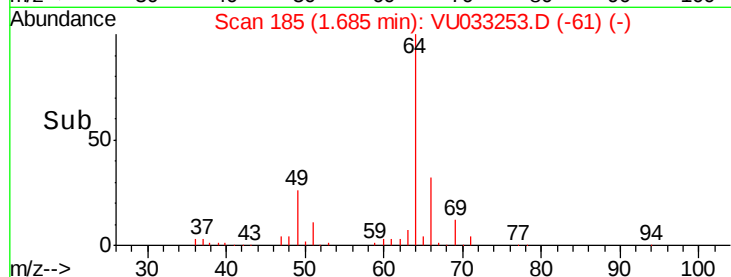
40000

20000

0

Time-->

1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 48.704 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033253.D

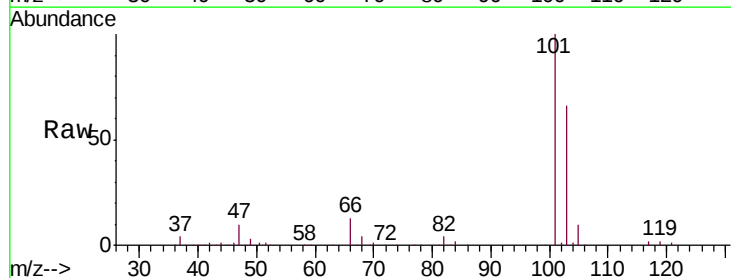
Acq: 15 Jul 2019 14:07

Tgt Ion: 101 Resp: 223285

Ion Ratio Lower Upper

101 100

103 65.2 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033244.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033244.D (-233) (-)

1.87

150000

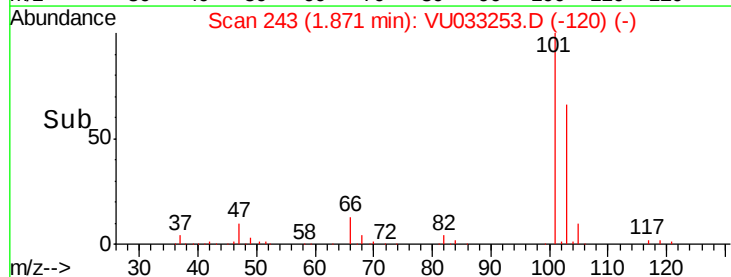
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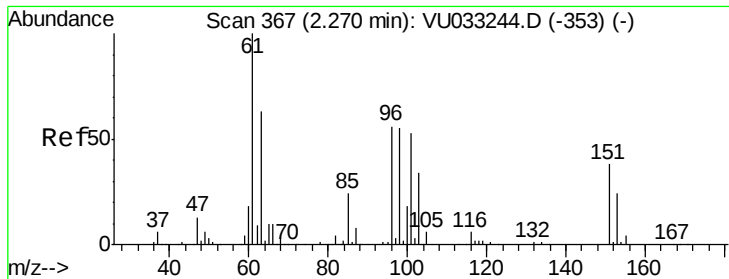
50000

0

Time-->

1.80 1.85 1.90 1.95





#10

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

Concen: 53.530 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

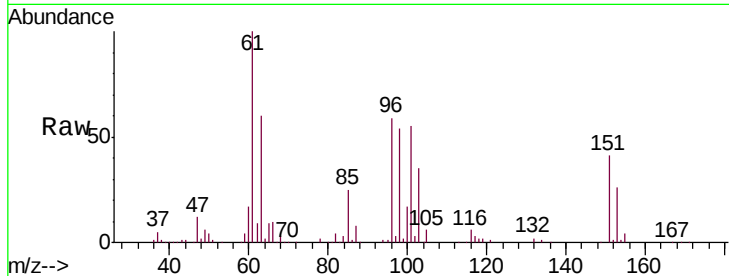
Tgt Ion: 101 Resp: 112827

Ion Ratio Lower Upper

101 100

85 44.7 35.8 53.8

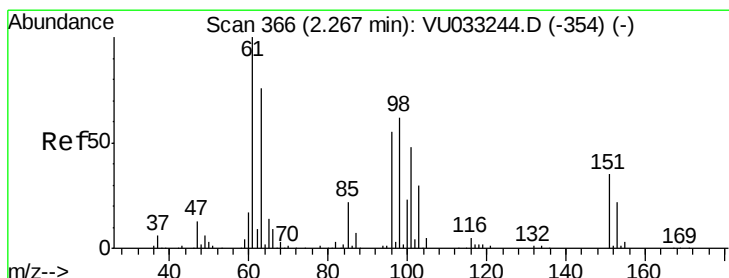
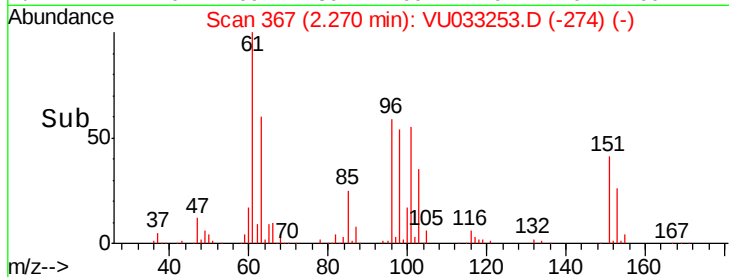
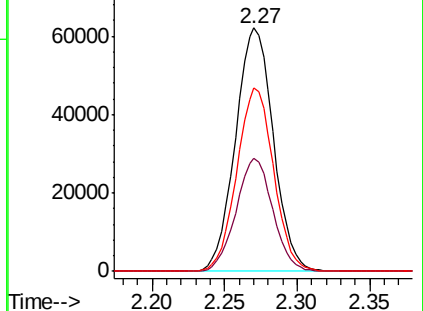
151 73.0 56.7 85.1



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: 51.440 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

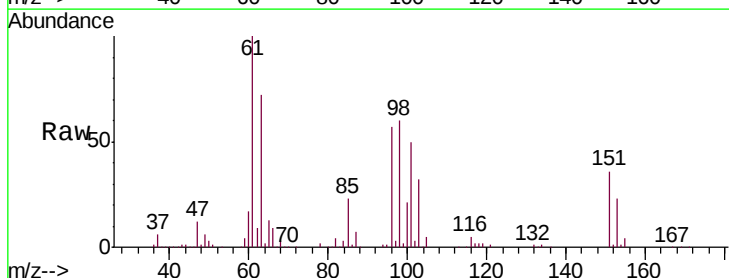
Tgt Ion: 96 Resp: 106079

Ion Ratio Lower Upper

96 100

61 174.2 126.1 234.1

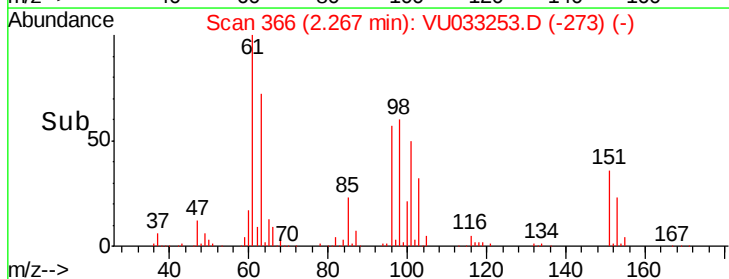
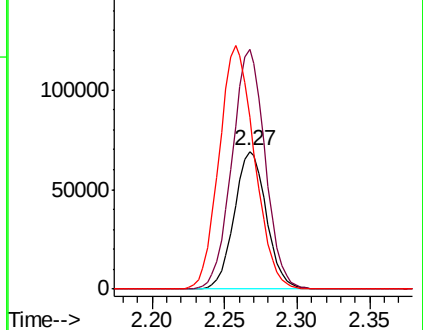
63 124.9 96.8 179.8

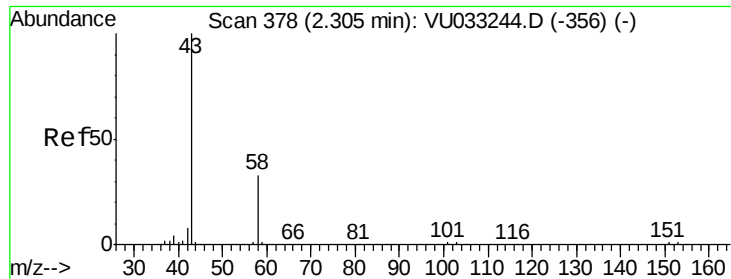


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 92.261 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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ClientSampleId :

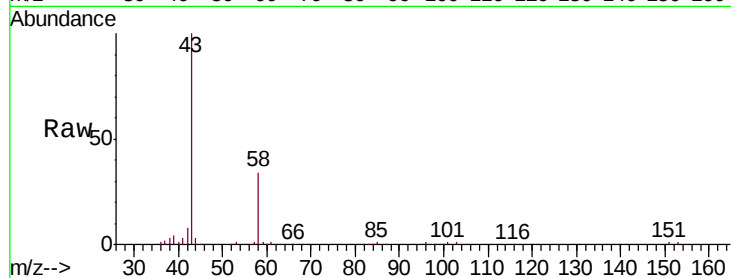
VSTD05050

Tgt Ion: 43 Resp: 170825

Ion Ratio Lower Upper

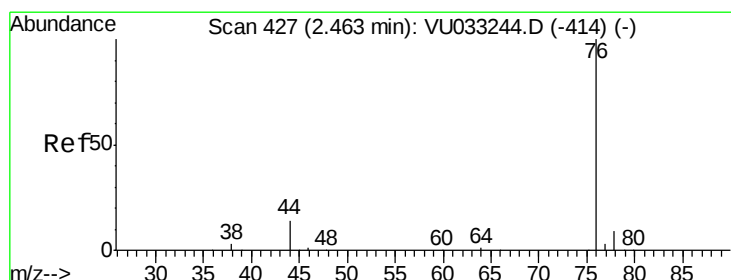
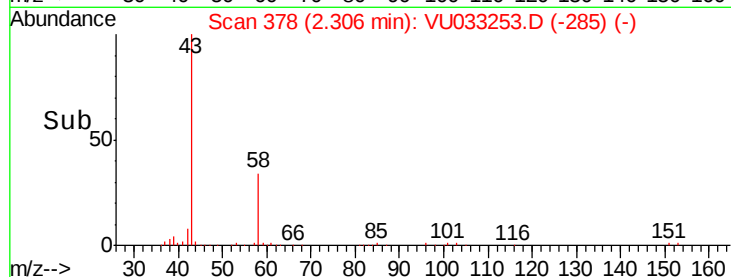
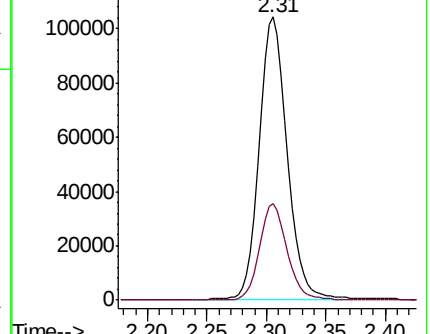
43 100

58 33.5 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033244.D (-356) (-)

Ion 58.00 (57.70 to 58.70): VU033244.D (-356) (-)



#14

Carbon disulfide

Concen: 47.982 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033253.D

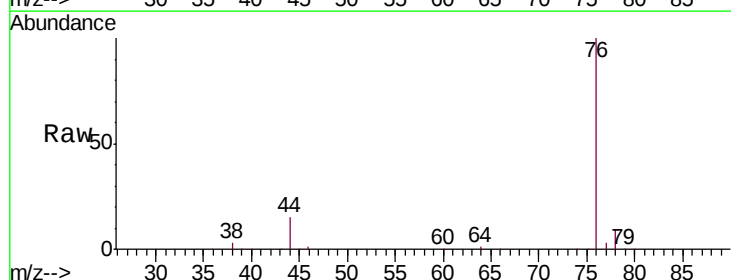
Acq: 15 Jul 2019 14:07

Tgt Ion: 76 Resp: 302625

Ion Ratio Lower Upper

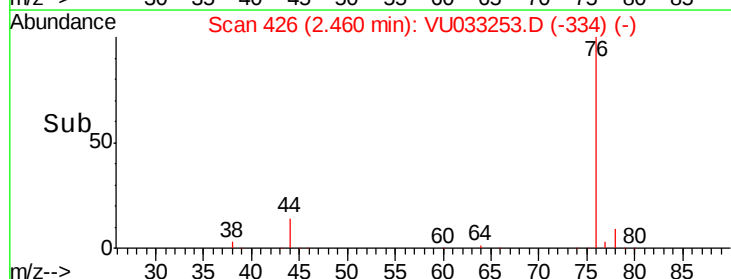
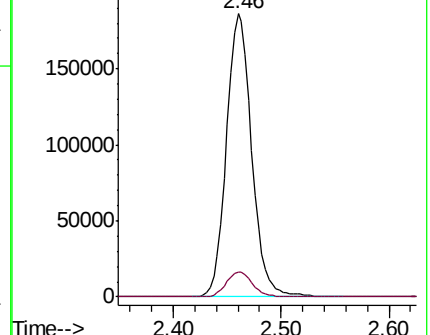
76 100

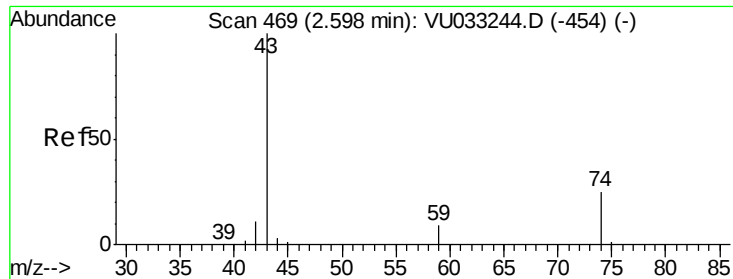
78 8.8 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033244.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033244.D (-414) (-)

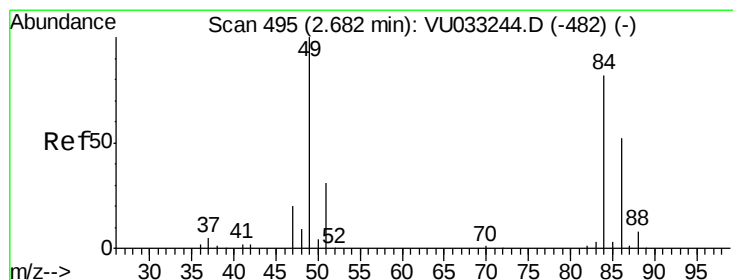
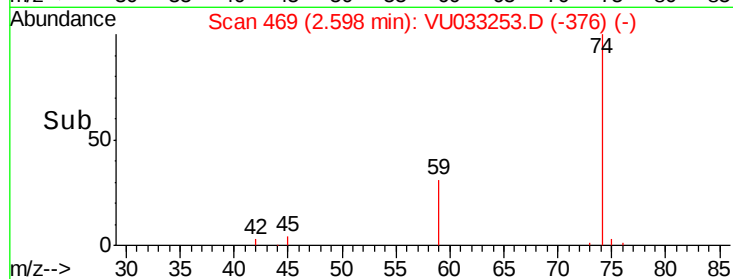
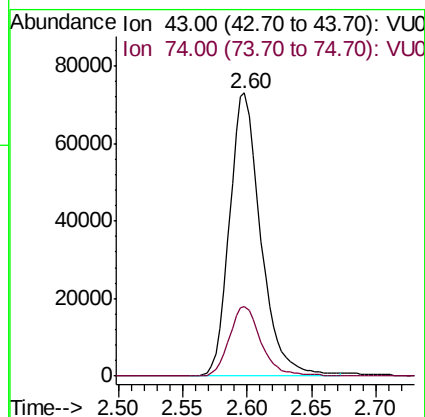
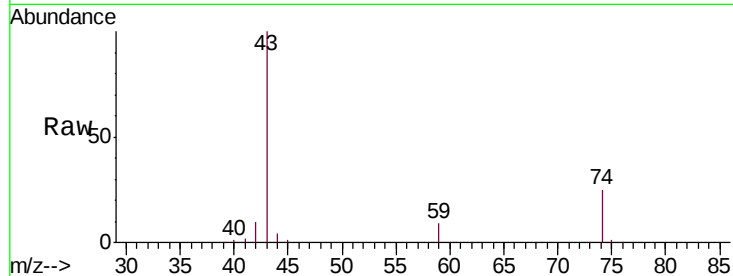




#15
Methyl Acetate
Concen: 50.661 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

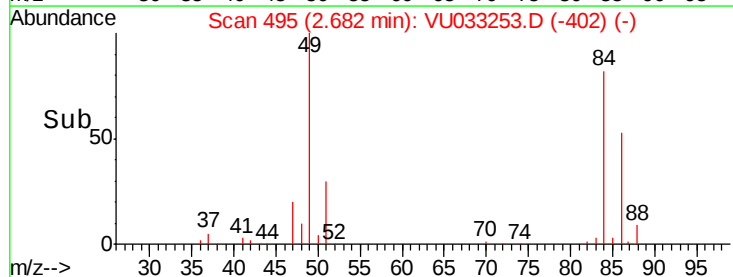
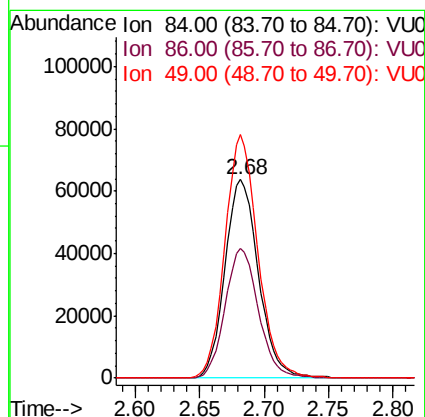
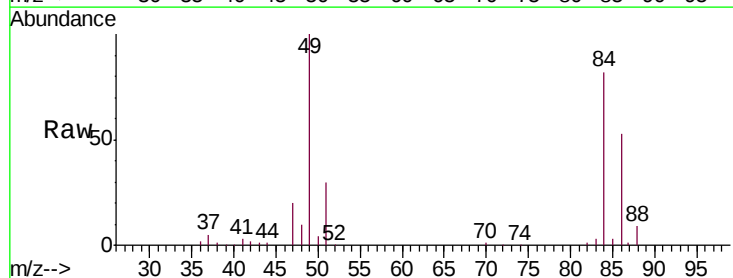
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

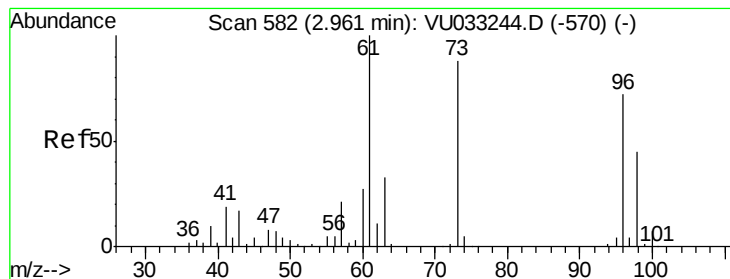
Tgt Ion: 43 Resp: 122492
Ion Ratio Lower Upper
43 100
74 25.3 19.9 29.9



#16
Methylene chloride
Concen: 48.952 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

Tgt Ion: 84 Resp: 115259
Ion Ratio Lower Upper
84 100
86 65.4 45.7 84.9
49 122.6 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 49.506 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

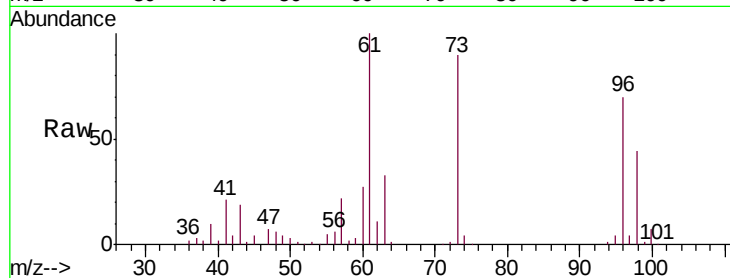
Tgt Ion: 96 Resp: 105513

Ion Ratio Lower Upper

96 100

61 143.3 100.2 186.2

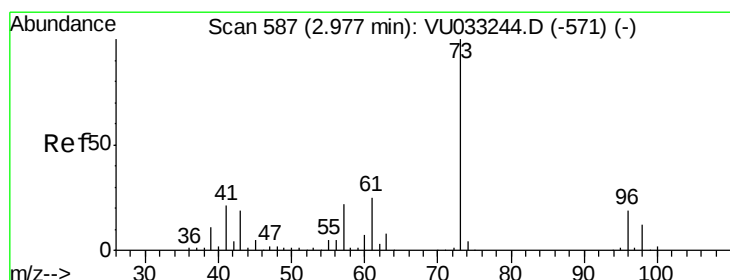
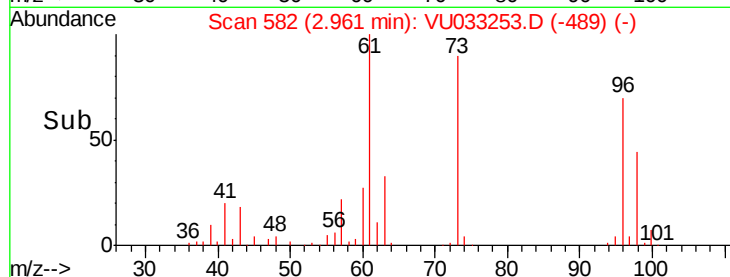
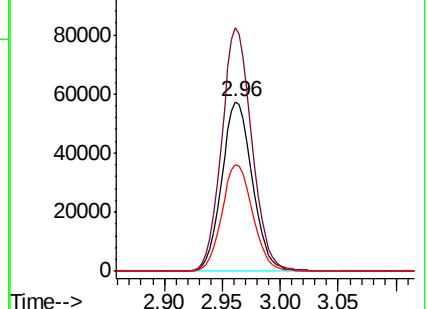
98 62.7 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033244.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033244.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033244.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 49.649 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

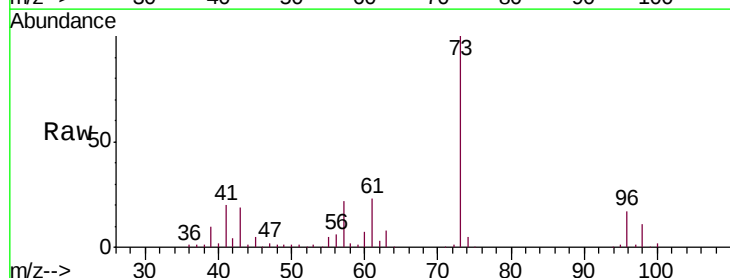
Tgt Ion: 73 Resp: 326623

Ion Ratio Lower Upper

73 100

43 19.8 15.7 23.5

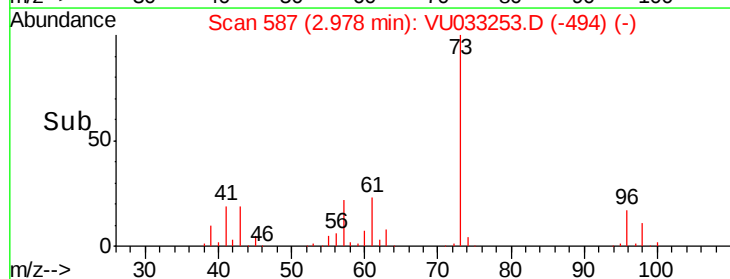
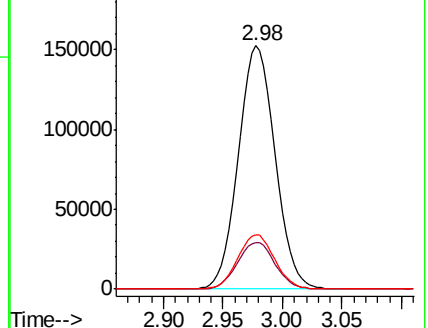
57 22.5 17.8 26.6

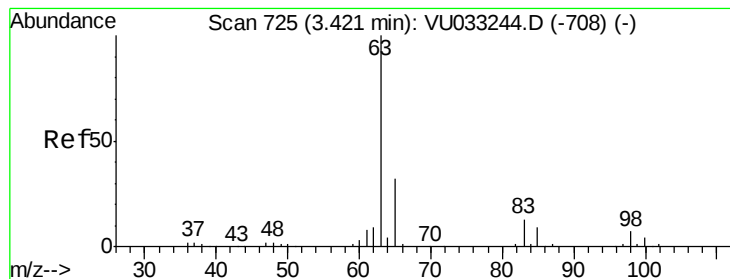


Abundance Ion 73.00 (72.70 to 73.70): VU033244.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033244.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033244.D (-571) (-)





#19

1,1-Dichloroethane

Concen: 49.524 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

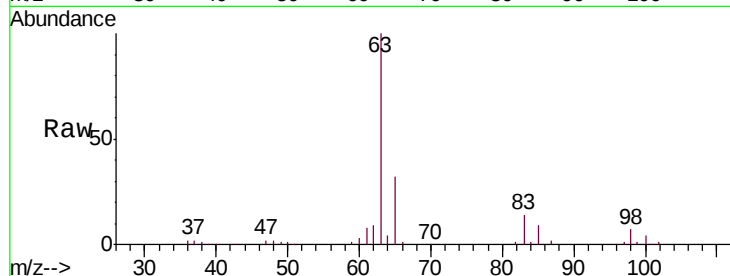
Tgt Ion: 63 Resp: 202893

Ion Ratio Lower Upper

63 100

65 31.6 22.3 41.5

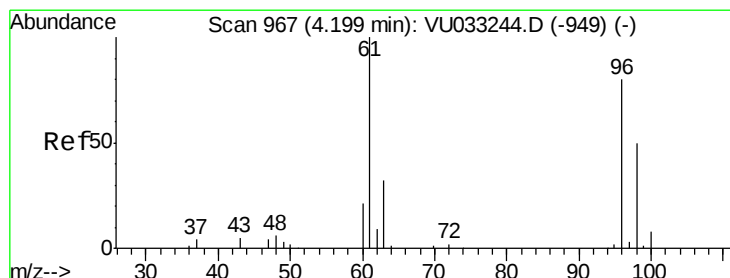
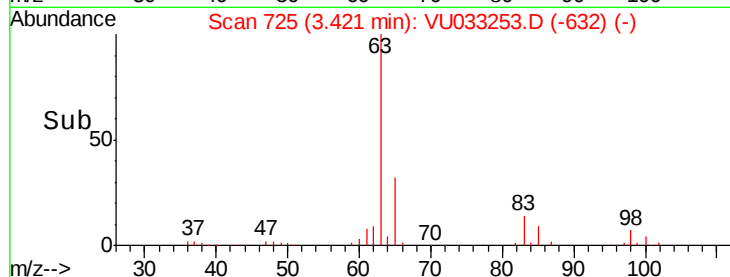
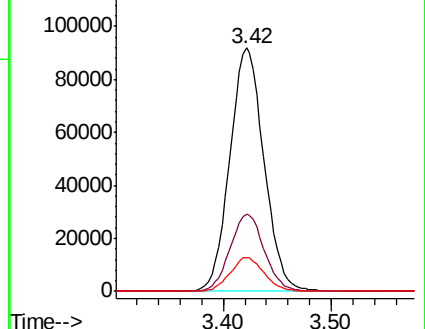
83 14.0 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VU033244.D (-708) (-)

Ion 65.00 (64.70 to 65.70): VU033244.D (-708) (-)

Ion 83.00 (82.70 to 83.70): VU033244.D (-708) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.171 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

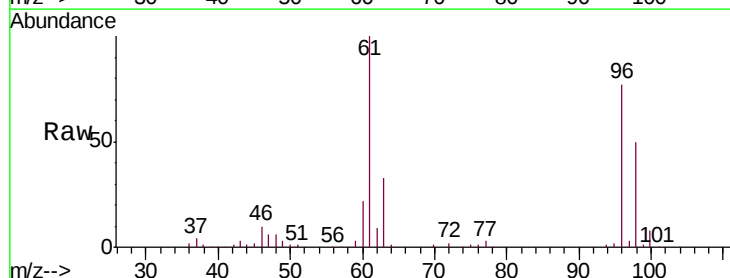
Tgt Ion: 96 Resp: 118208

Ion Ratio Lower Upper

96 100

61 130.6 91.1 169.1

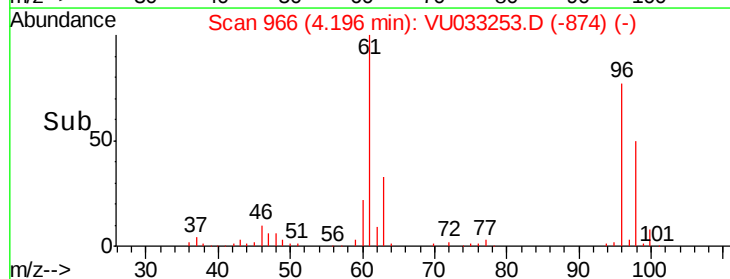
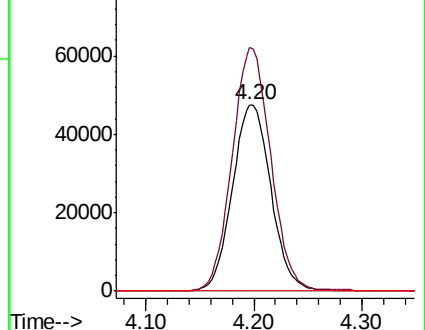
68 0.0 0.0 0.0

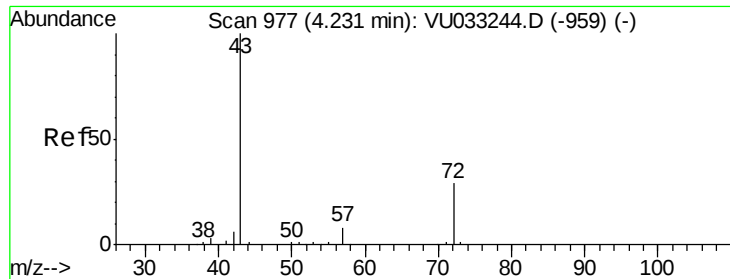


Abundance Ion 96.00 (95.70 to 96.70): VU033244.D (-949) (-)

Ion 61.00 (60.70 to 61.70): VU033244.D (-949) (-)

Ion 68.00 (67.70 to 68.70): VU033244.D (-949) (-)





#22

2-Butanone

Concen: 97.723 ug/L

RT: 4.23 min Scan# 977

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

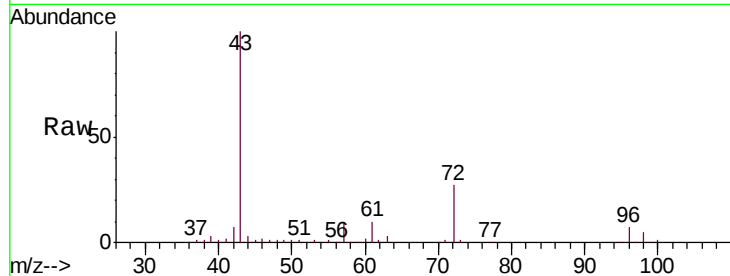
VSTD05050

Tgt Ion: 43 Resp: 201002

Ion Ratio Lower Upper

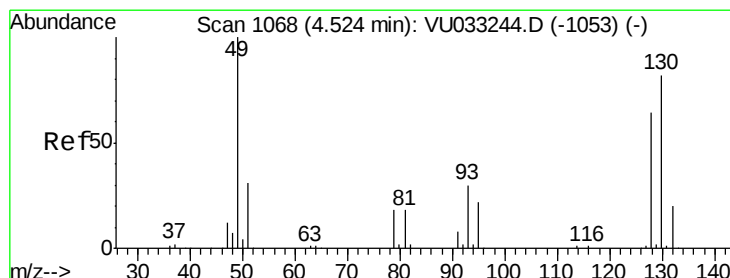
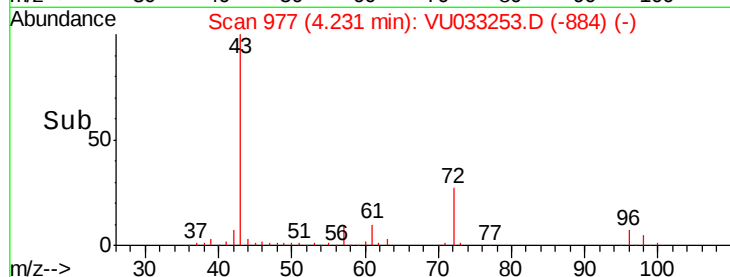
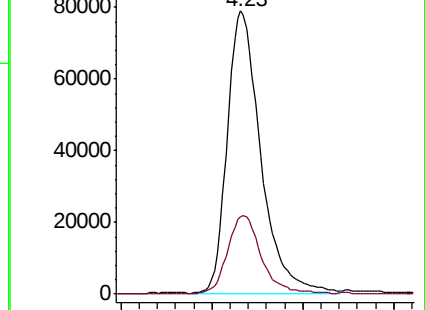
43 100

72 28.5 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033244.D (-959) (-)

Ion 72.00 (71.70 to 72.70): VU033244.D (-959) (-)



#23

Bromochloromethane

Concen: 49.963 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Tgt Ion: 128 Resp: 61505

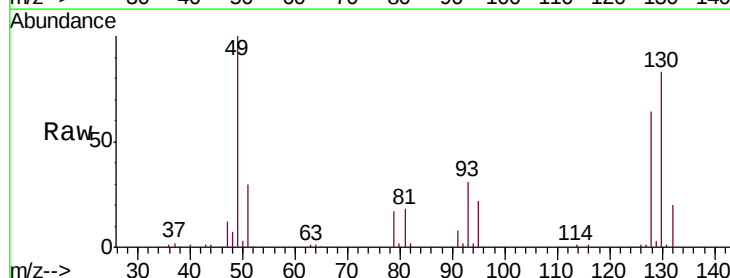
Ion Ratio Lower Upper

128 100

49 155.6 107.2 199.2

130 128.4 87.0 161.6

51 47.4 39.6 59.4

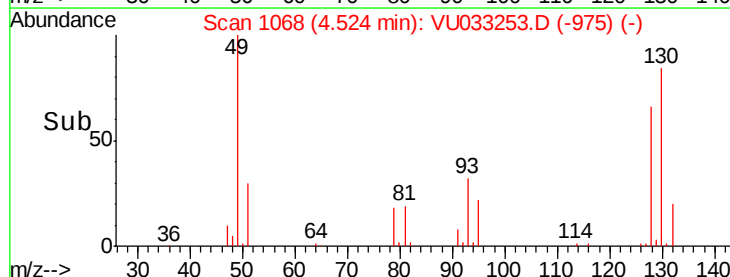
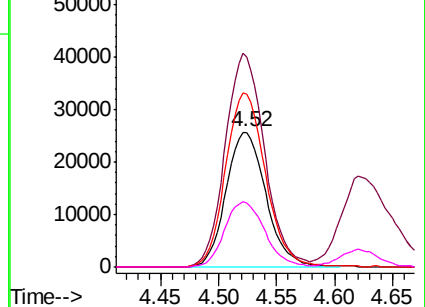


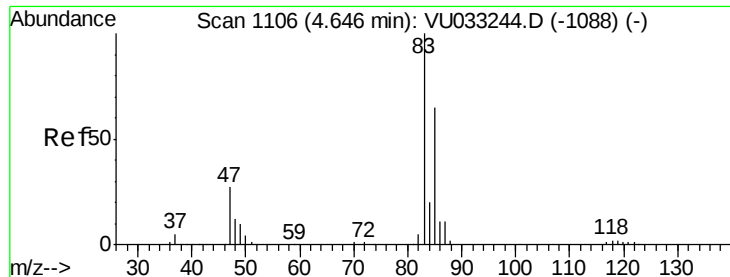
Abundance Ion 128.00 (127.70 to 128.70): VU033244.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033244.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033244.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033244.D (-1053) (-)

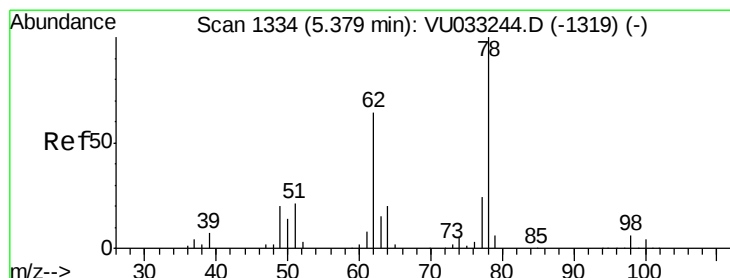
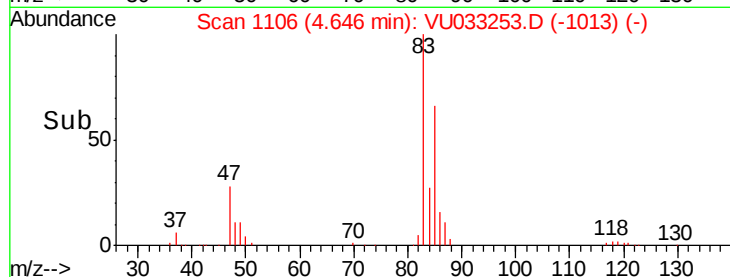
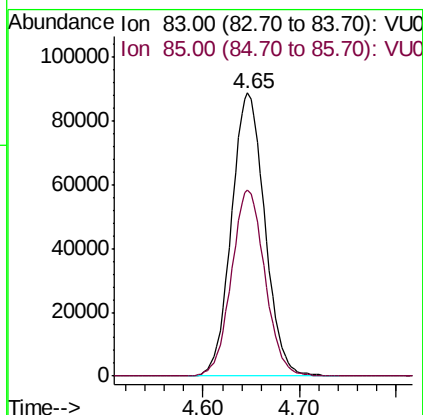
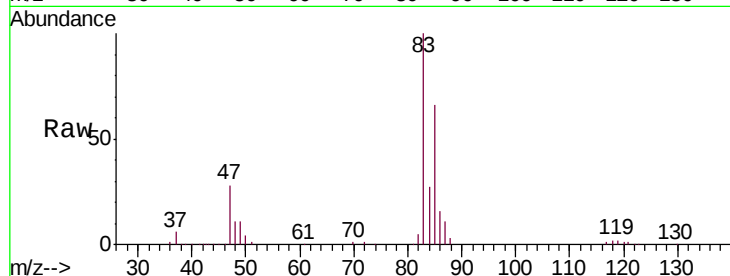




#25
Chloroform
Concen: 48.657 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

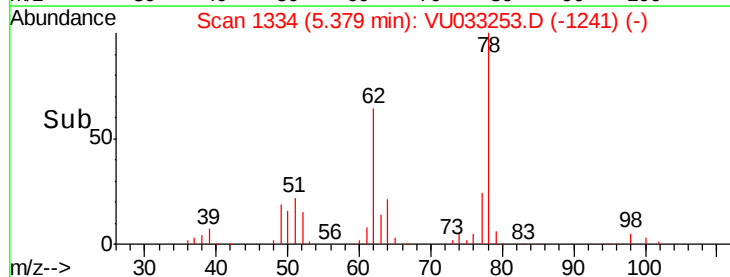
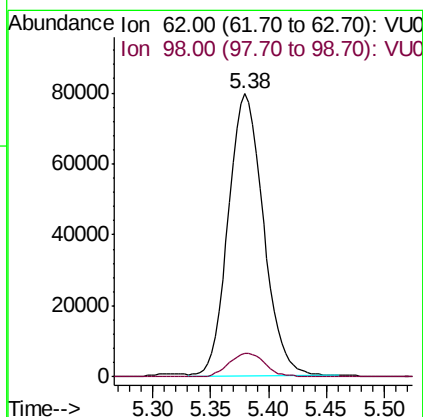
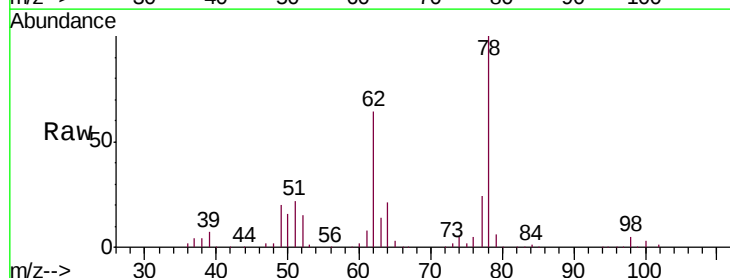
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

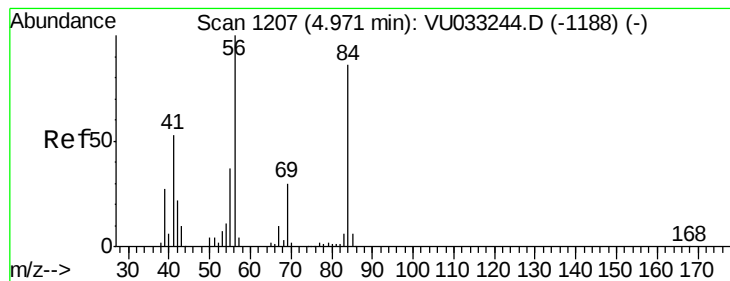
Tgt Ion: 83 Resp: 212009
Ion Ratio Lower Upper
83 100
85 65.7 45.4 84.4



#27
1,2-Dichloroethane
Concen: 49.764 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

Tgt Ion: 62 Resp: 167905
Ion Ratio Lower Upper
62 100
98 8.2 7.0 10.6





#29

Cyclohexane

Concen: 51.386 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

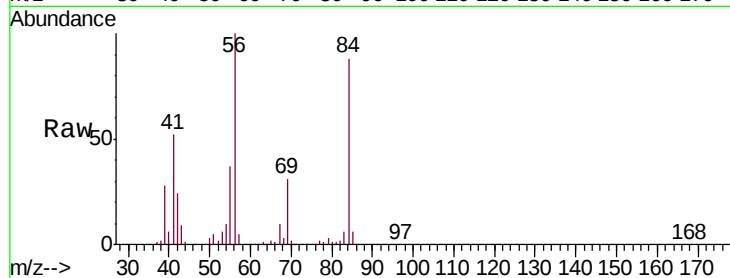
Tgt Ion: 56 Resp: 173125

Ion Ratio Lower Upper

56 100

69 30.8 24.7 37.1

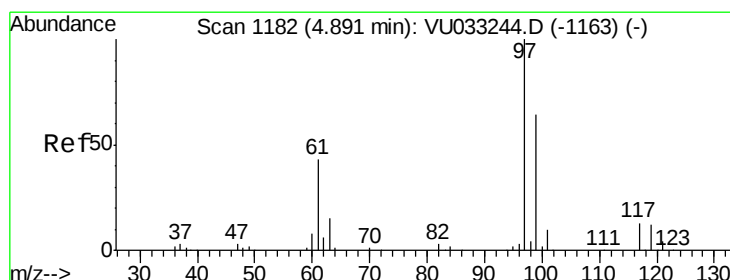
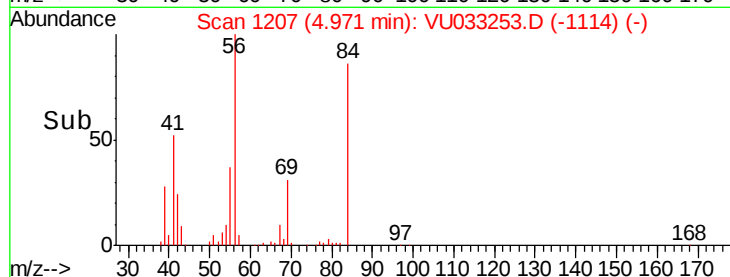
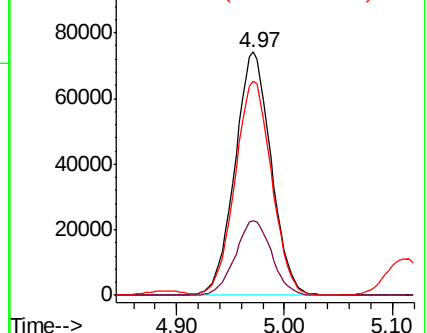
84 89.2 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VU033253.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU033253.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU033253.D (-1114) (-)



#30

1,1,1-Trichloroethane

Concen: 50.940 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

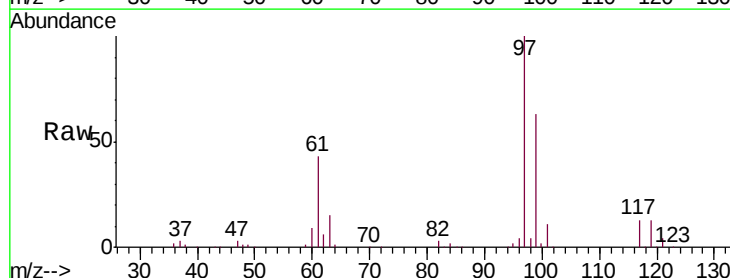
Tgt Ion: 97 Resp: 183751

Ion Ratio Lower Upper

97 100

99 63.2 51.5 77.3

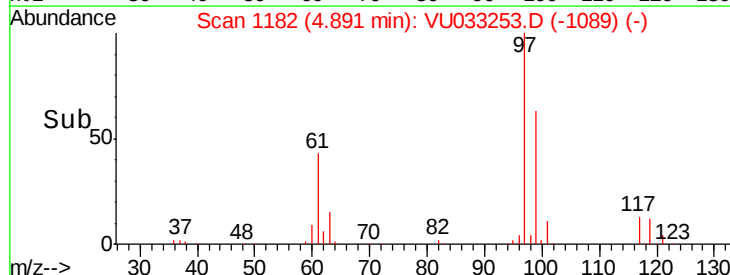
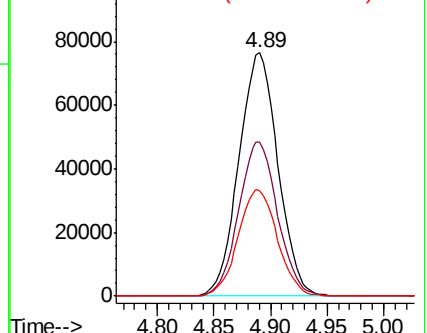
61 44.2 36.4 54.6

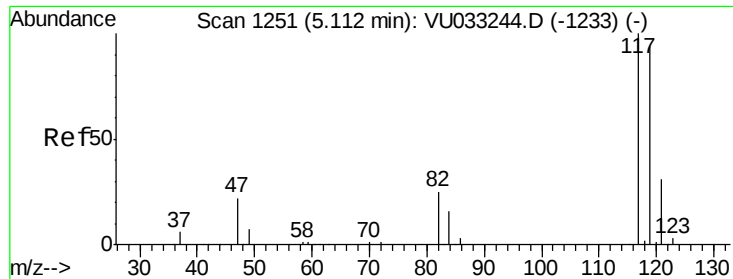


Abundance Ion 97.00 (96.70 to 97.70): VU033253.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033253.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033253.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 51.294 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

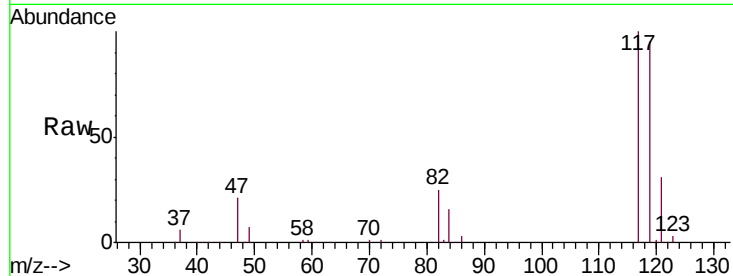
VSTD05050

Tgt Ion:117 Resp: 161921

Ion Ratio Lower Upper

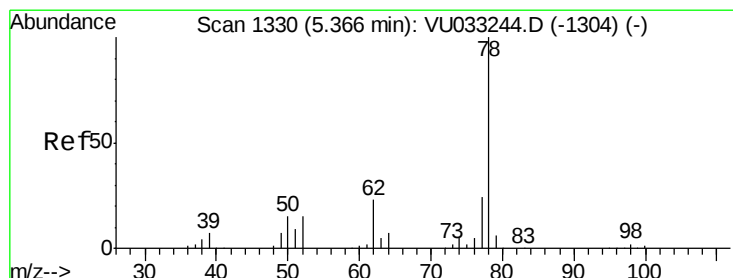
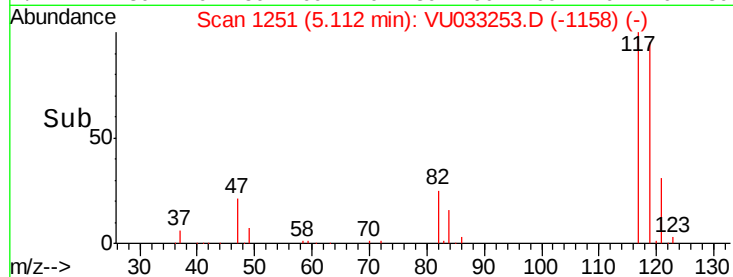
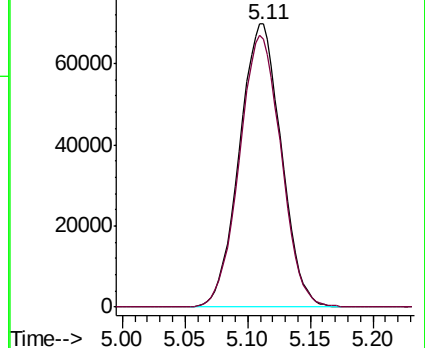
117 100

119 95.7 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.955 ug/L

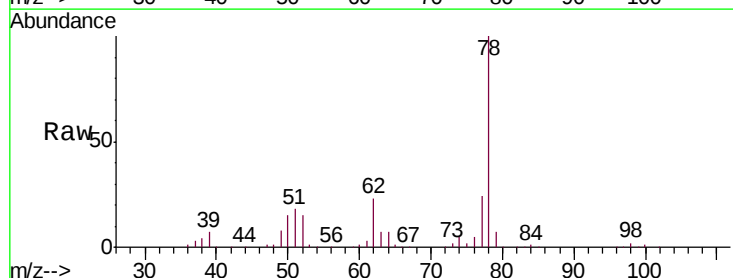
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

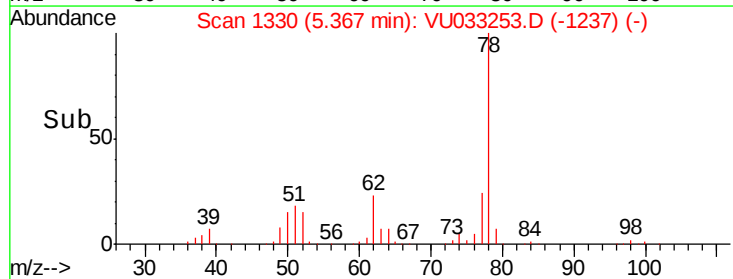
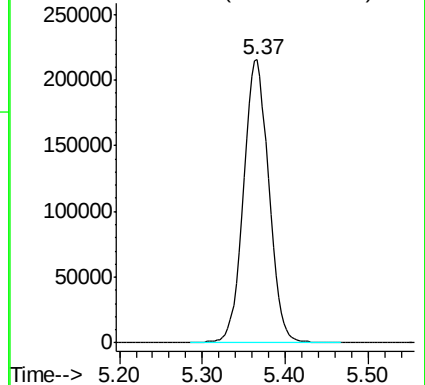
Lab File: VU033253.D

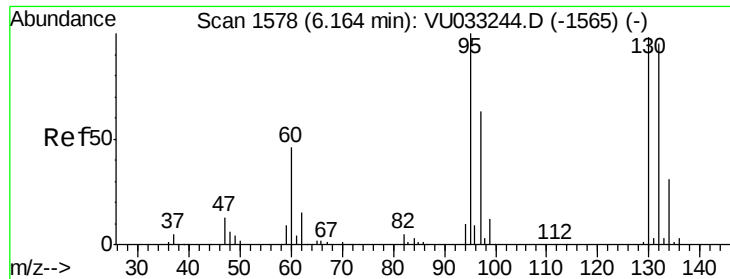
Acq: 15 Jul 2019 14:07

Tgt Ion: 78 Resp: 459452



Abundance Ion 78.00 (77.70 to 78.70): VU0

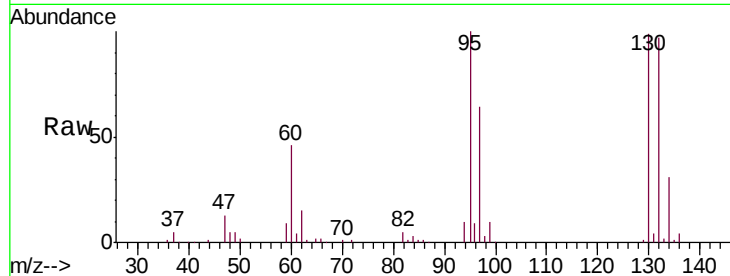




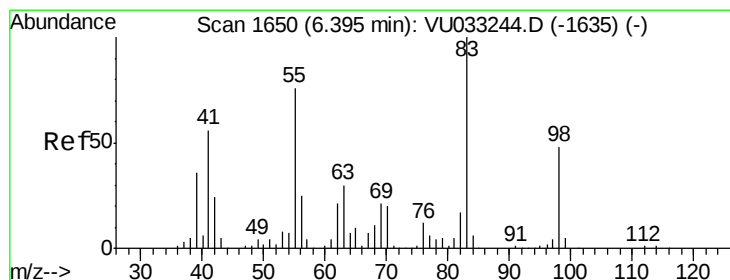
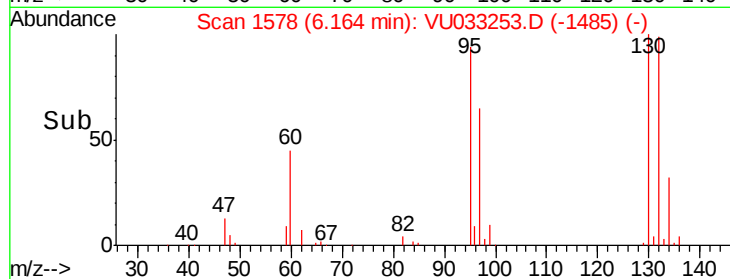
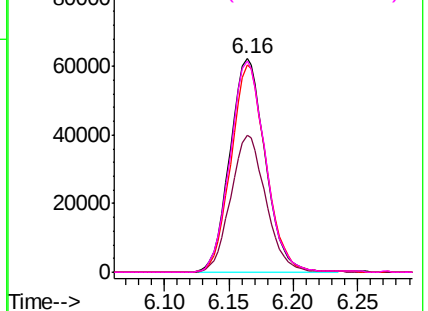
#34
 Trichloroethene
 Concen: 50.359 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion: 95 Resp: 118754
 Ion Ratio Lower Upper
 95 100
 97 64.1 43.8 81.4
 132 97.1 65.5 121.6
 130 98.6 69.7 129.5

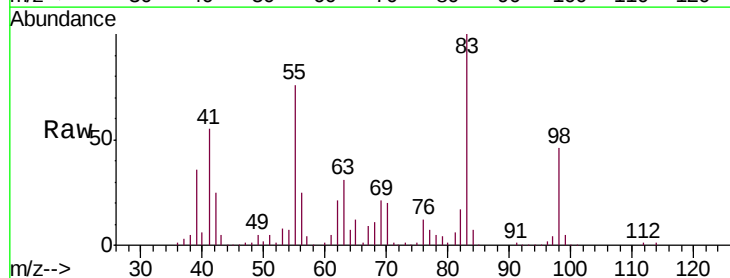


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

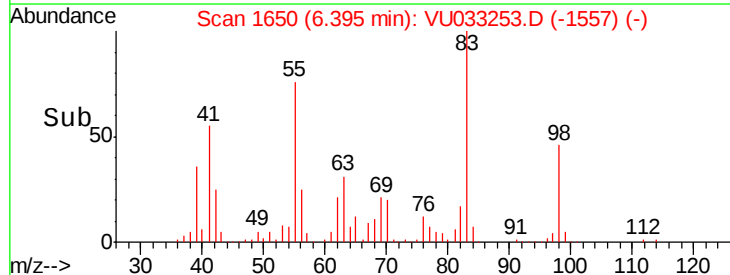
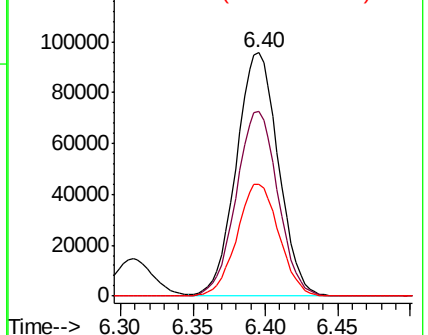


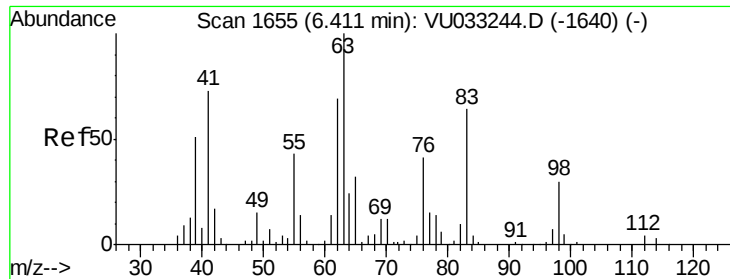
#35
 Methylcyclohexane
 Concen: 53.408 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

Tgt Ion: 83 Resp: 192929
 Ion Ratio Lower Upper
 83 100
 55 75.6 60.5 90.7
 98 46.0 37.4 56.0



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

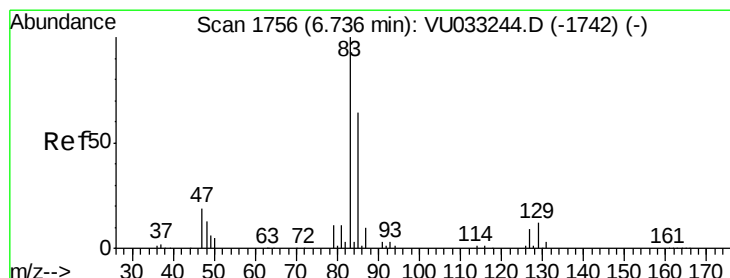
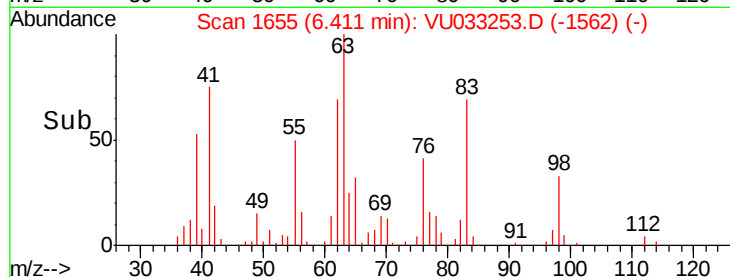
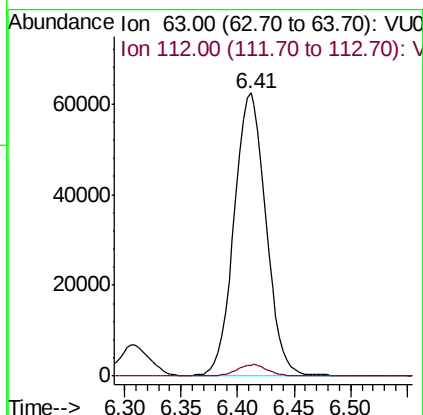
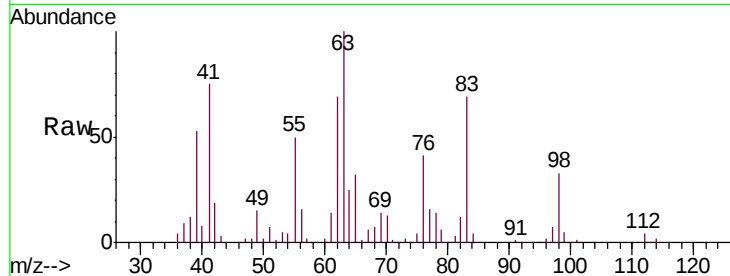




#37
 1,2-Dichloropropane
 Concen: 49.786 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

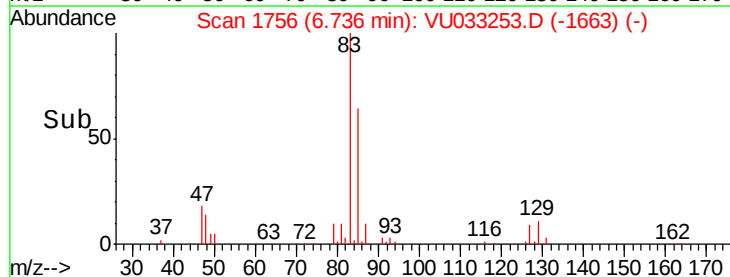
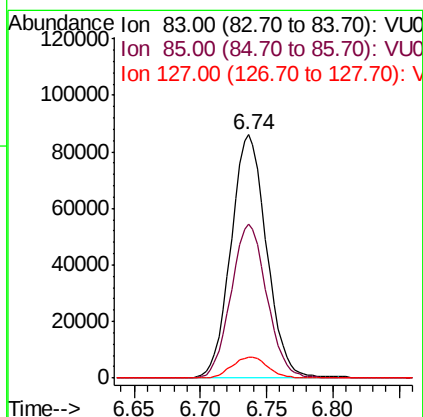
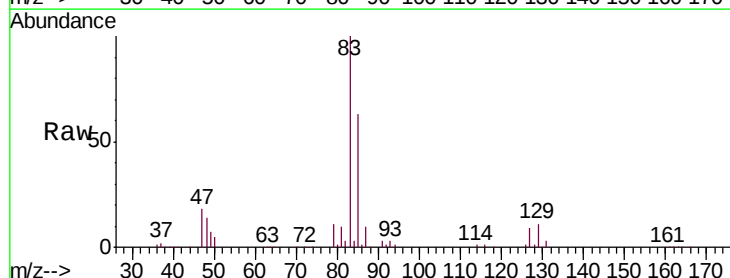
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

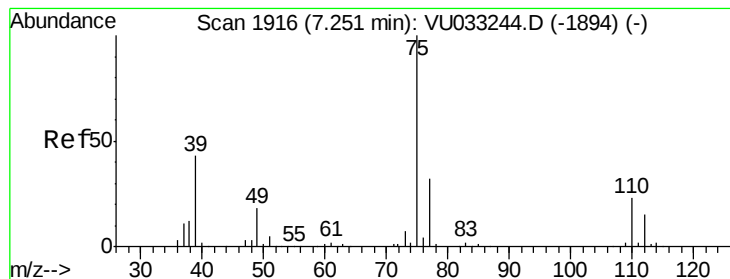
Tgt Ion: 63 Resp: 121744
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.2 4.8



#38
 Bromodichloromethane
 Concen: 50.989 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

Tgt Ion: 83 Resp: 160835
 Ion Ratio Lower Upper
 83 100
 85 63.2 45.8 85.0
 127 8.6 6.8 10.2



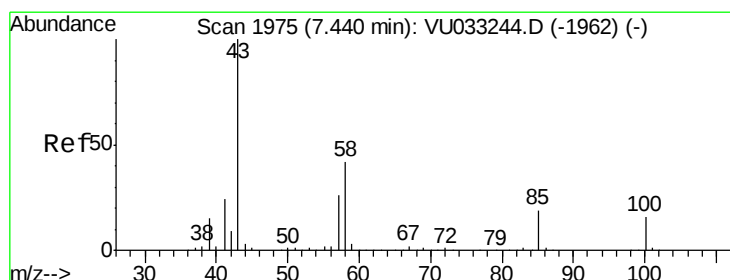
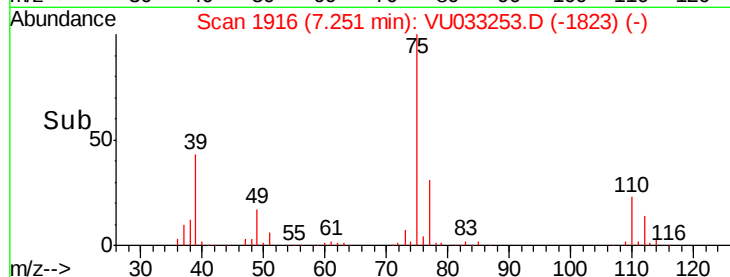
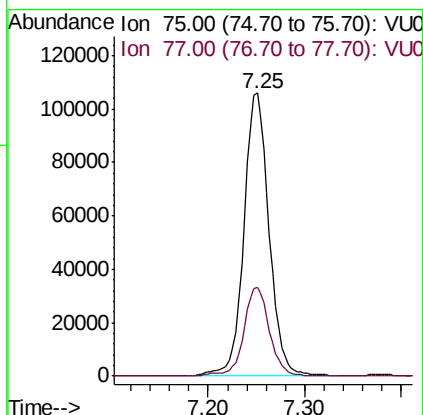
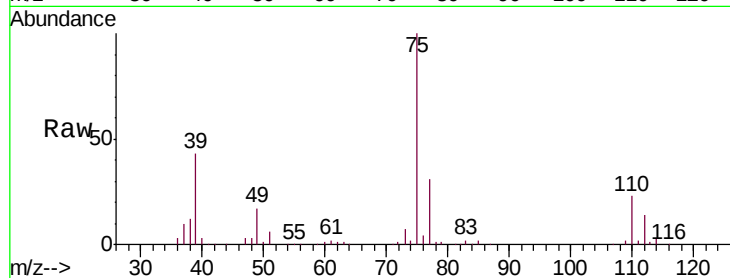


#39

cis-1,3-Dichloropropene
Concen: 51.133 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

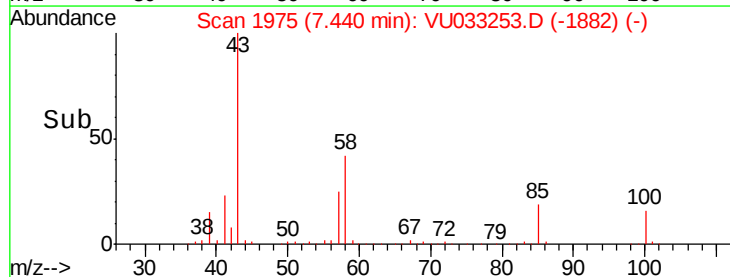
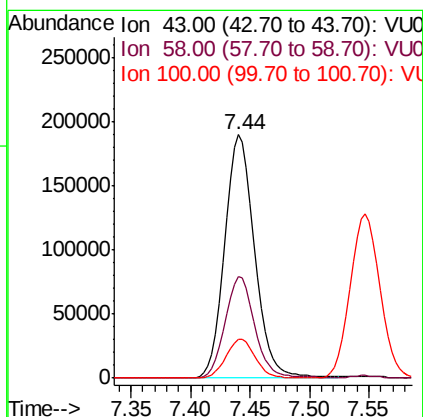
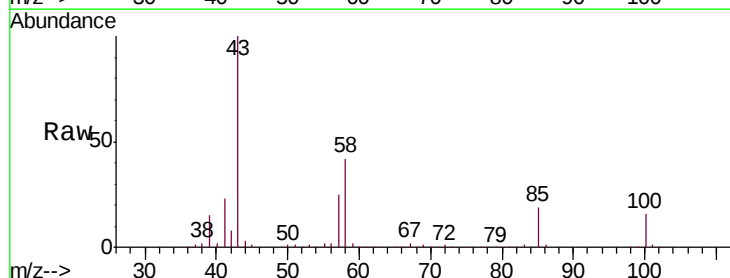
Tgt Ion: 75 Resp: 191711
Ion Ratio Lower Upper
75 100
77 31.2 23.1 42.9

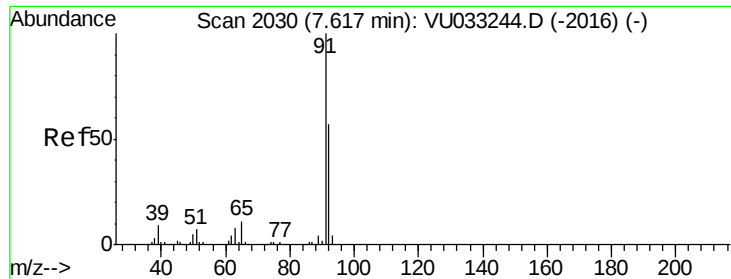


#40

4-Methyl-2-pentanone
Concen: 100.975 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

Tgt Ion: 43 Resp: 331237
Ion Ratio Lower Upper
43 100
58 41.2 33.3 49.9
100 15.7 12.1 18.1





#42

Toluene

Concen: 51.952 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

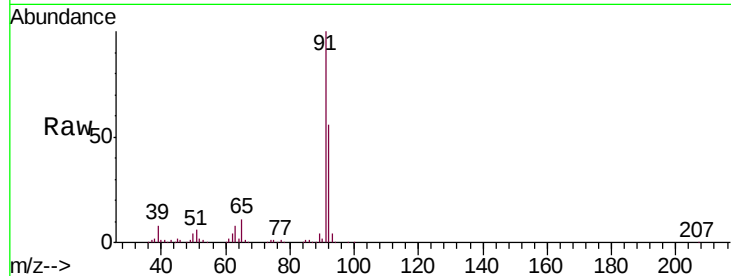
VSTD05050

Tgt Ion: 91 Resp: 505035

Ion Ratio Lower Upper

91 100

92 56.1 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU033244.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033244.D (-2016) (-)

7.62

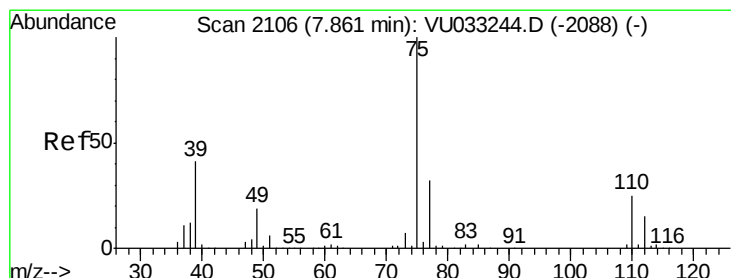
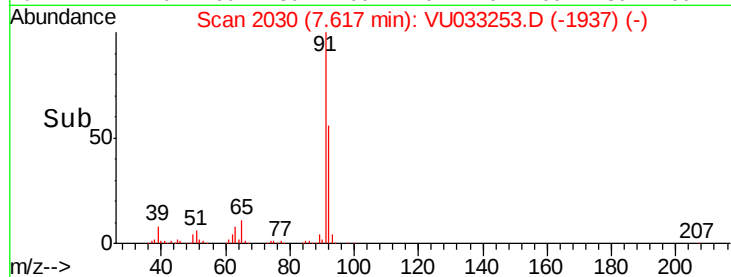
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 52.009 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033253.D

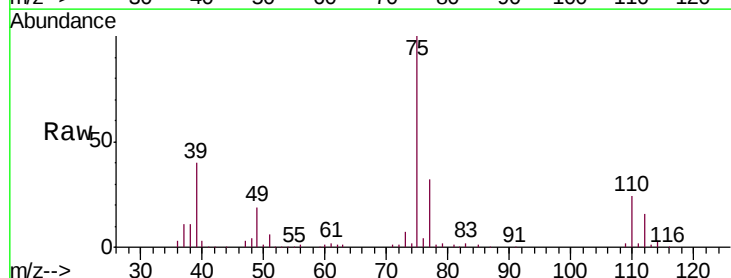
Acq: 15 Jul 2019 14:07

Tgt Ion: 75 Resp: 175856

Ion Ratio Lower Upper

75 100

77 31.9 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU033244.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033244.D (-2088) (-)

7.86

120000

100000

80000

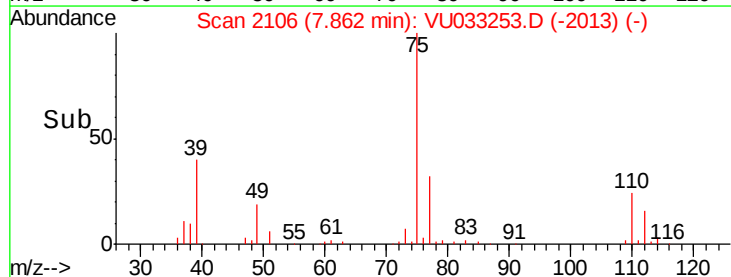
60000

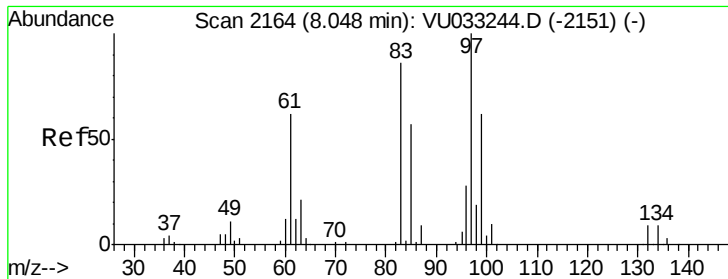
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 50.095 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tgt Ion: 97 Resp: 115856

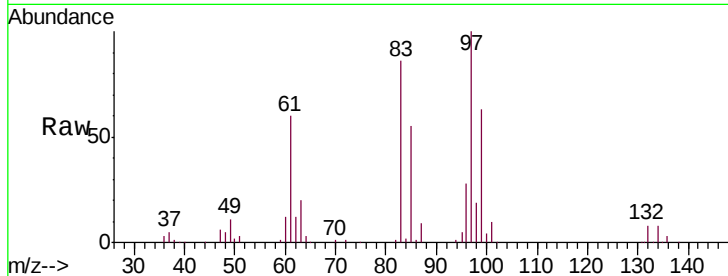
Ion Ratio Lower Upper

97 100

99 63.0 43.0 79.8

83 86.2 61.5 114.3

85 54.9 38.8 72.0

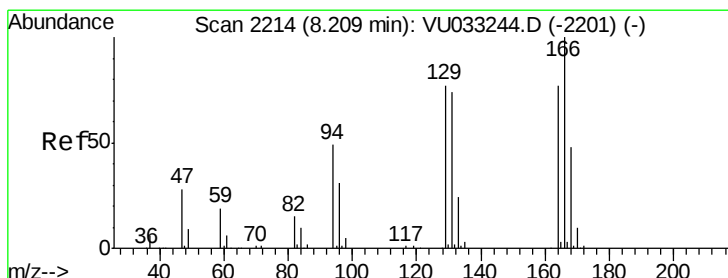
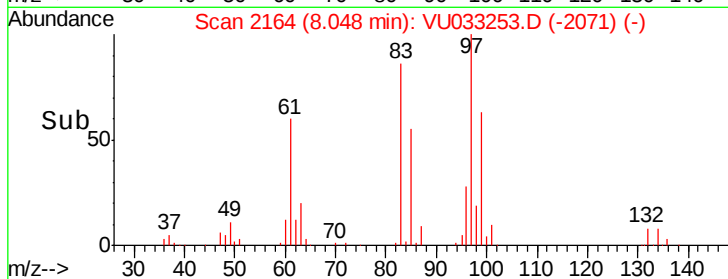
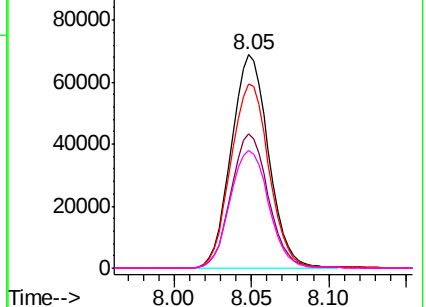


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 52.109 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Tgt Ion: 164 Resp: 95126

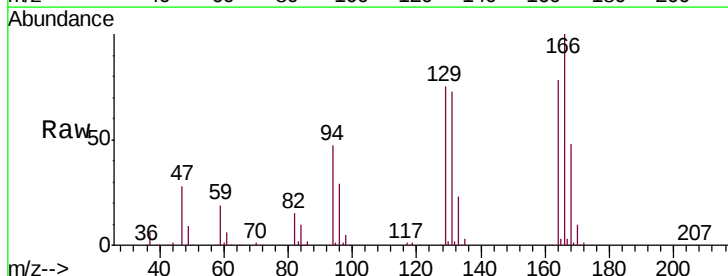
Ion Ratio Lower Upper

164 100

129 96.5 69.6 129.2

131 94.0 65.7 122.1

166 127.9 88.5 164.4

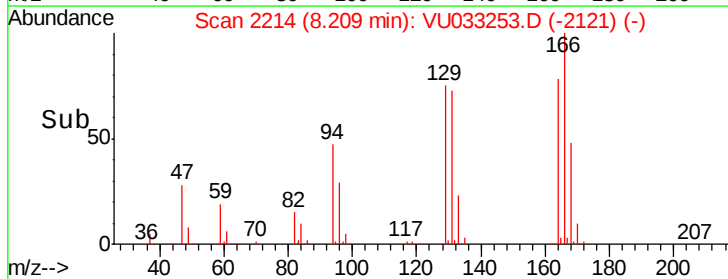
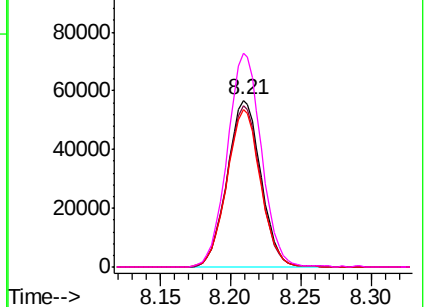


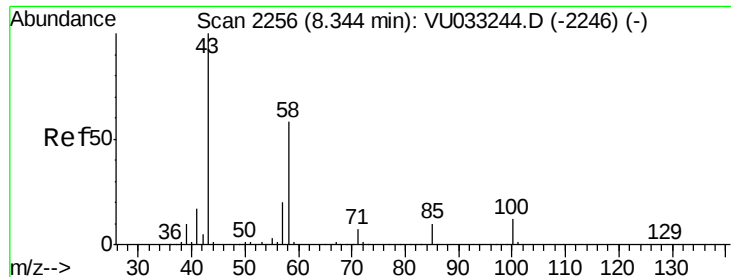
Abundance Ion 164.00 (163.70 to 164.70): V

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

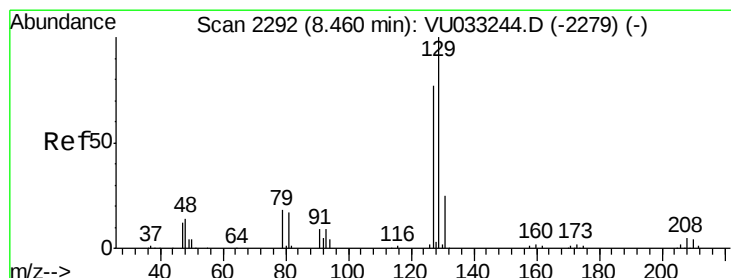
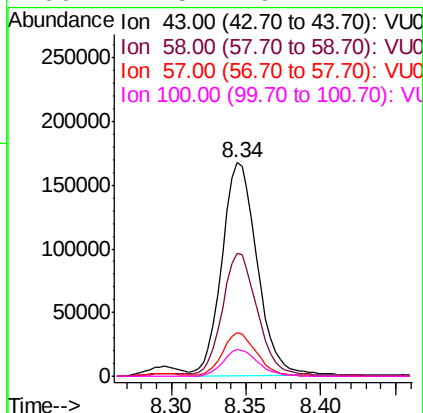
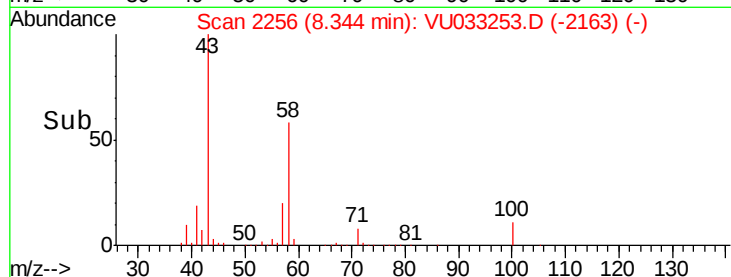
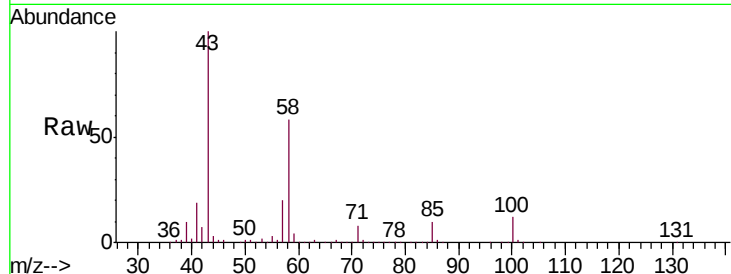




#48
2-Hexanone
Concen: 102.352 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

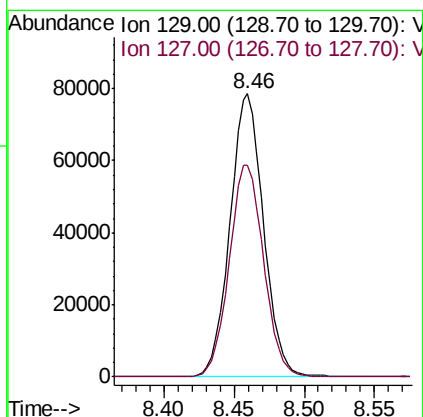
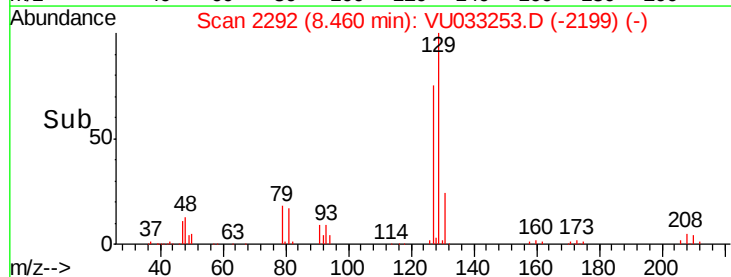
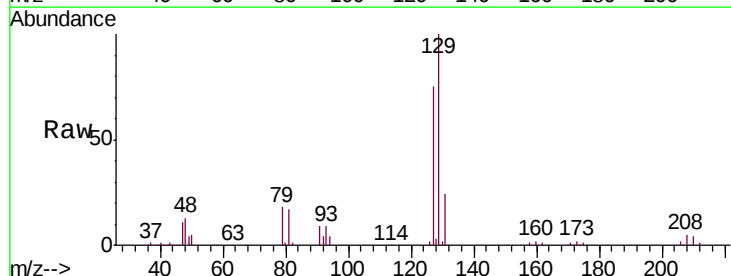
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

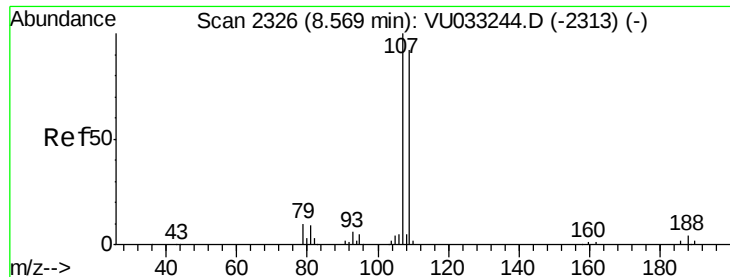
Tgt Ion: 43 Resp: 273532
Ion Ratio Lower Upper
43 100
58 57.0 46.1 69.1
57 19.8 15.8 23.8
100 12.5 9.4 14.2



#49
Dibromochloromethane
Concen: 50.670 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

Tgt Ion: 129 Resp: 130721
Ion Ratio Lower Upper
129 100
127 75.0 54.3 100.9

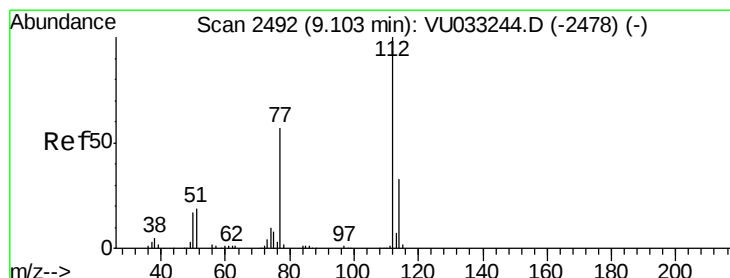
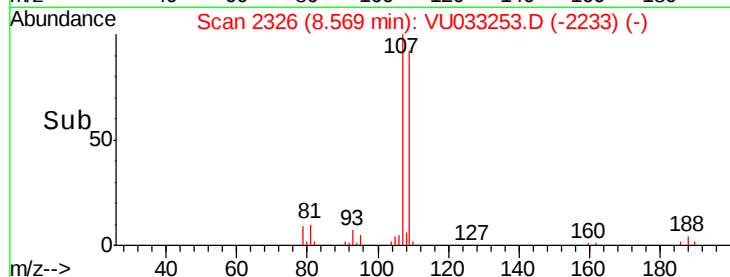
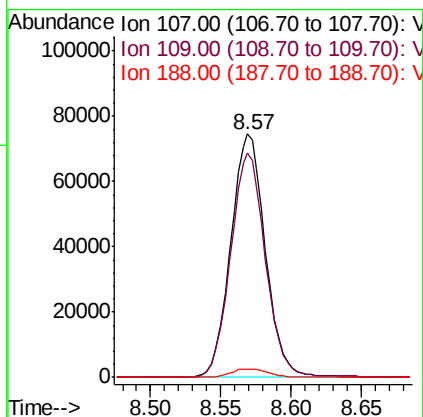
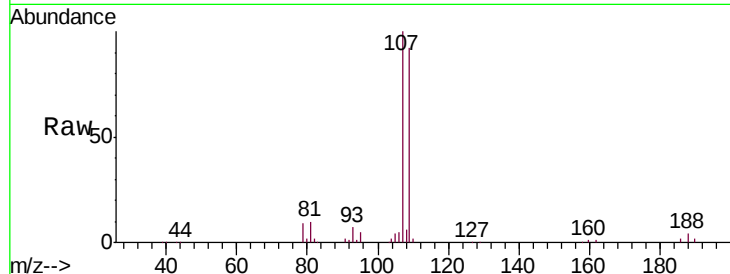




#50
1,2-Dibromoethane
Concen: 50.615 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

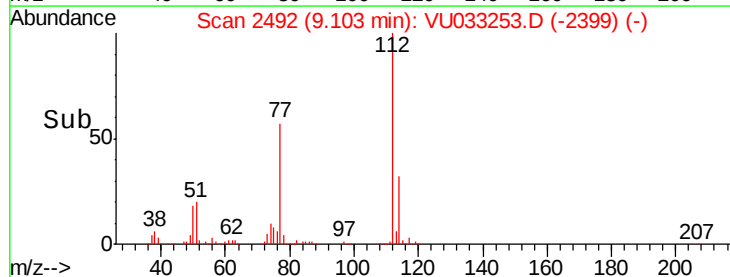
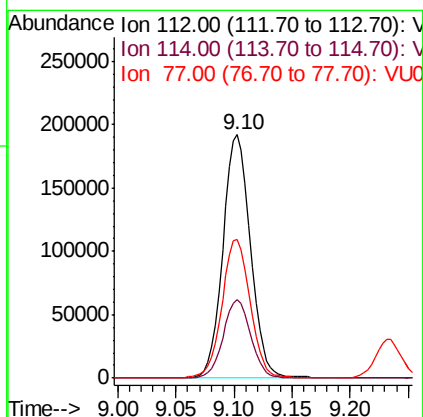
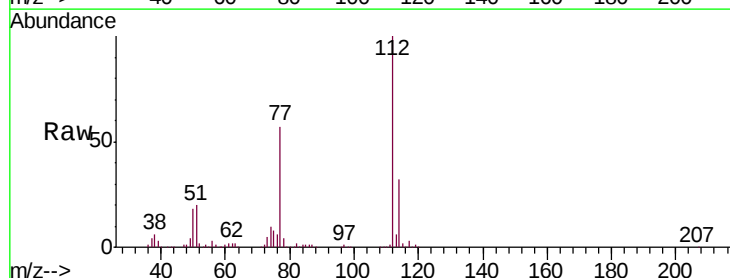
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

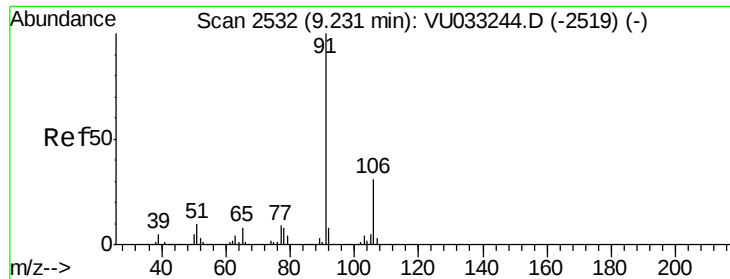
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.0	64.2	119.2
188	3.6	2.6	4.0



#51
Chlorobenzene
Concen: 50.105 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.3	41.3
77	57.0	47.2	70.8





#52

Ethylbenzene

Concen: 52.098 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

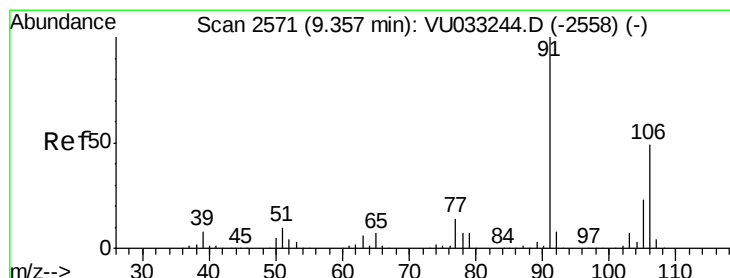
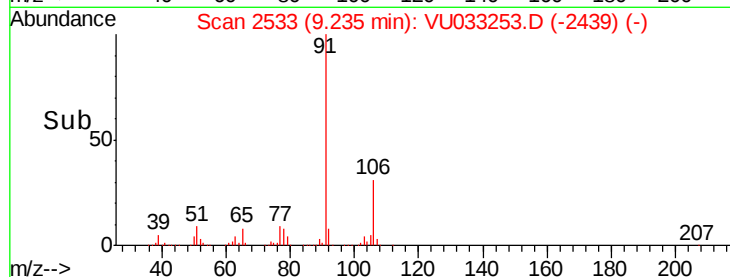
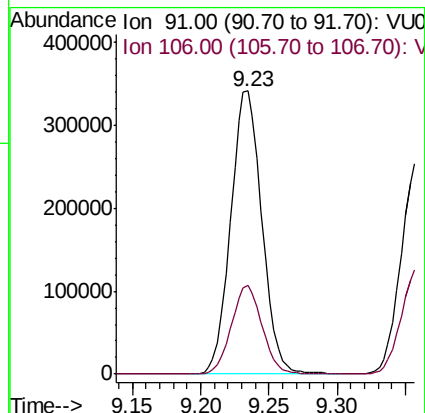
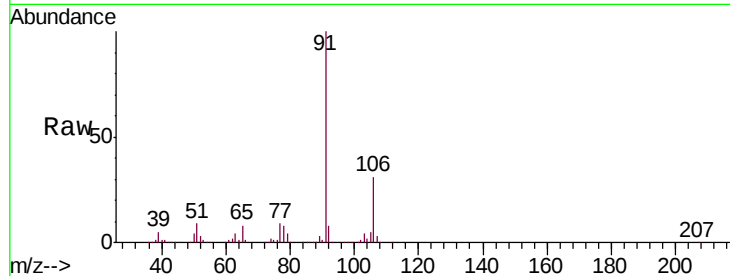
VSTD05050

Tgt Ion: 91 Resp: 541937

Ion Ratio Lower Upper

91 100

106 31.2 22.2 41.2



#53

m,p-Xylene

Concen: 52.631 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033253.D

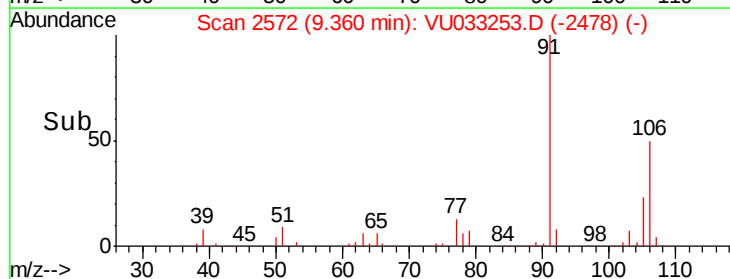
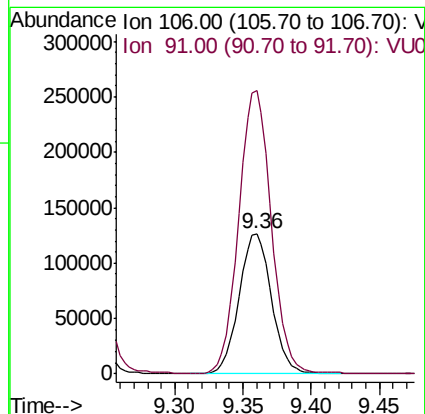
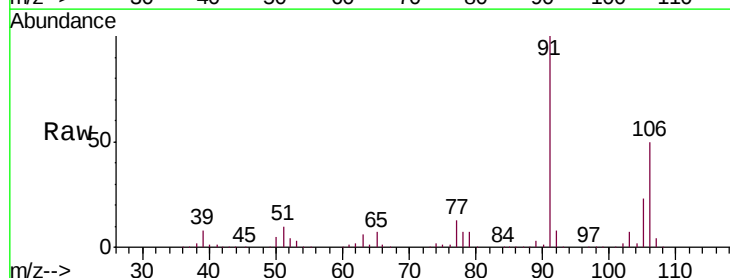
Acq: 15 Jul 2019 14:07

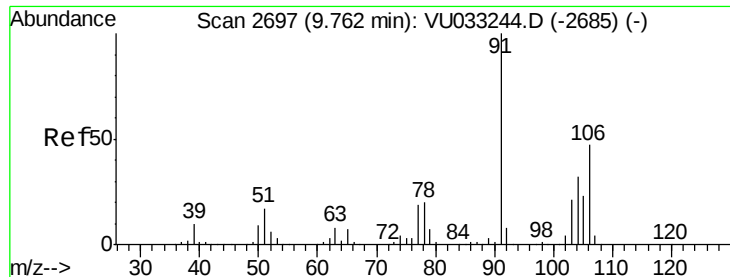
Tgt Ion: 106 Resp: 207368

Ion Ratio Lower Upper

106 100

91 201.4 141.3 262.3

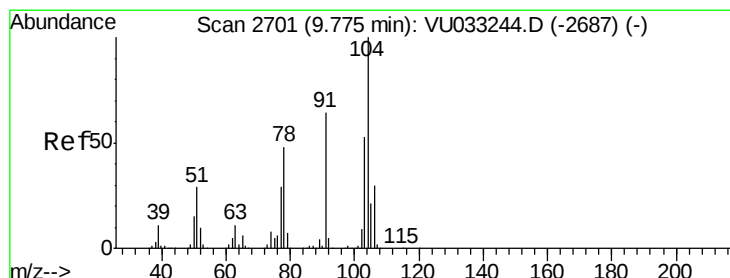
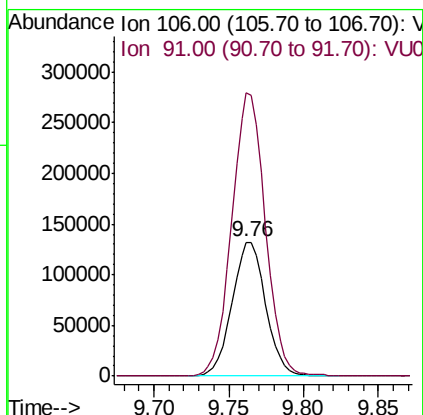
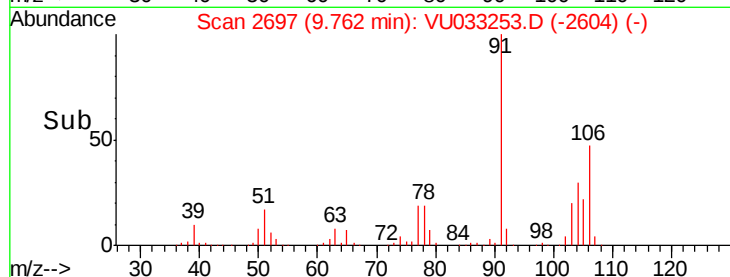
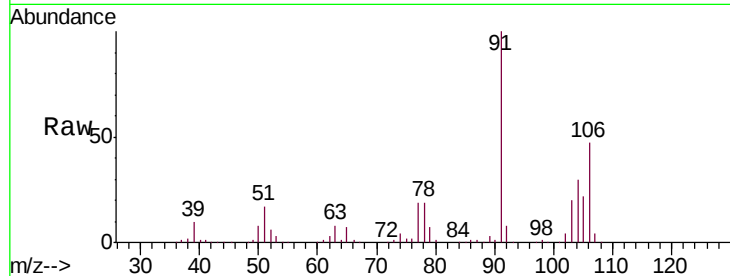




#54
o-xylene
Concen: 52.832 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

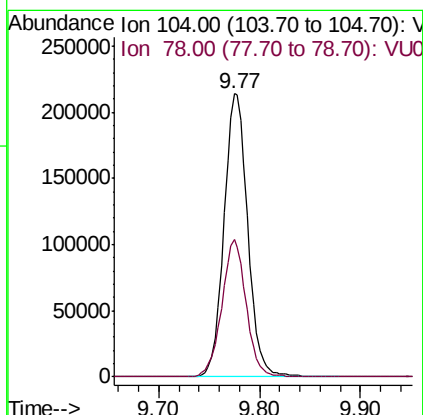
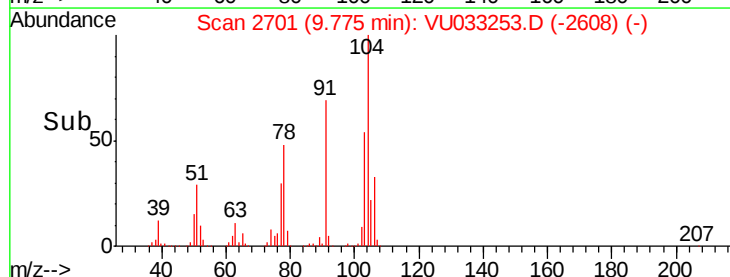
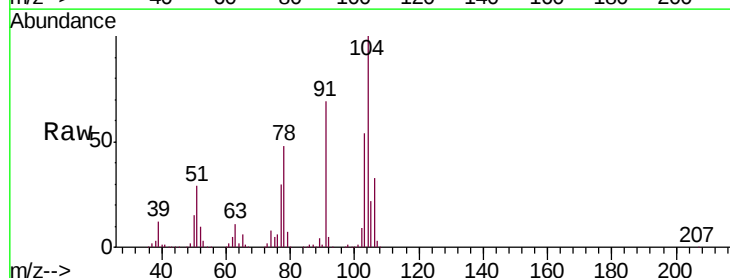
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

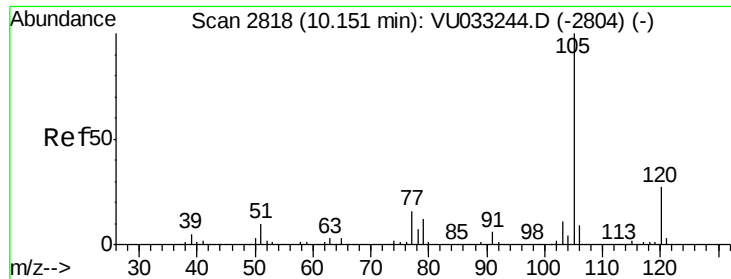
Tgt Ion:106 Resp: 206694
Ion Ratio Lower Upper
106 100
91 211.3 150.5 279.5



#55
Styrene
Concen: 53.160 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU033253.D
Acq: 15 Jul 2019 14:07

Tgt Ion:104 Resp: 352601
Ion Ratio Lower Upper
104 100
78 48.4 31.8 59.0





#56

Isopropylbenzene

Concen: 52.780 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

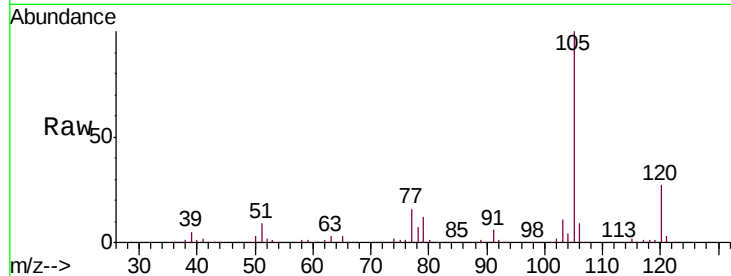
Tgt Ion: 105 Resp: 531354

Ion Ratio Lower Upper

105 100

120 26.6 21.2 31.8

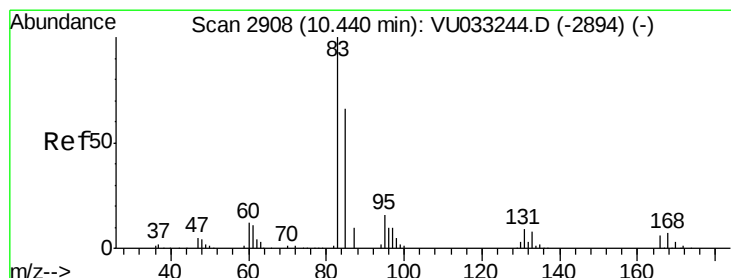
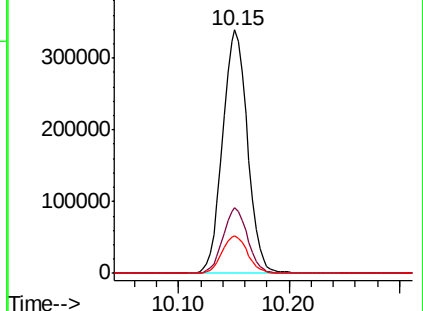
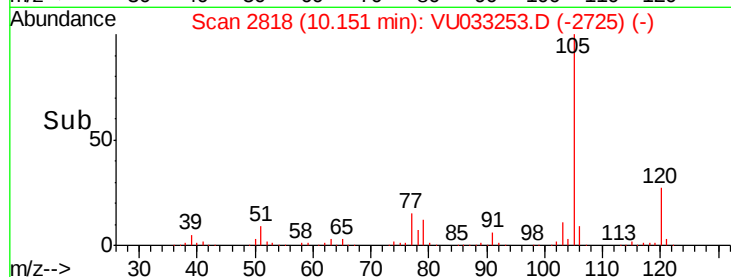
77 15.8 12.9 19.3



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: 50.076 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

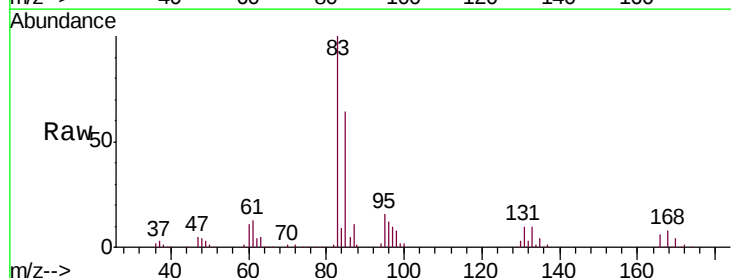
Tgt Ion: 83 Resp: 203429

Ion Ratio Lower Upper

83 100

85 63.6 44.9 83.3

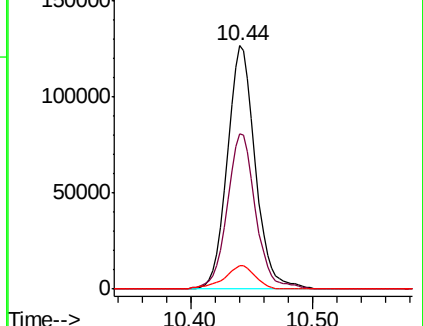
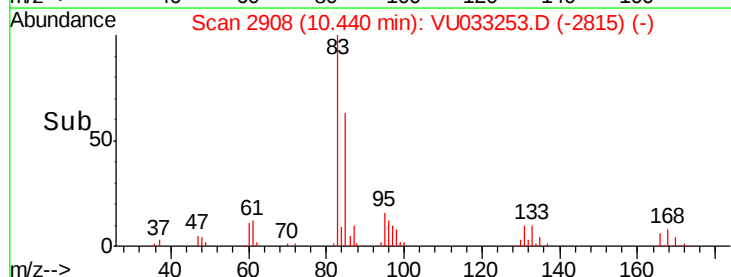
131 9.6 7.6 11.4

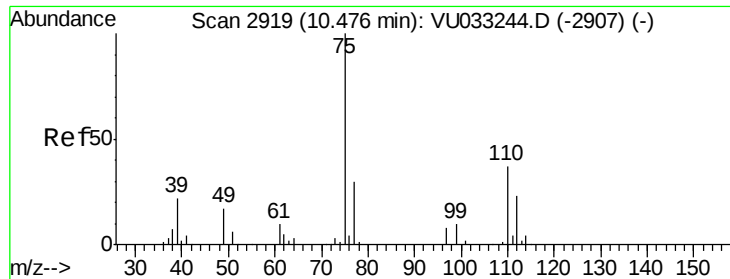


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

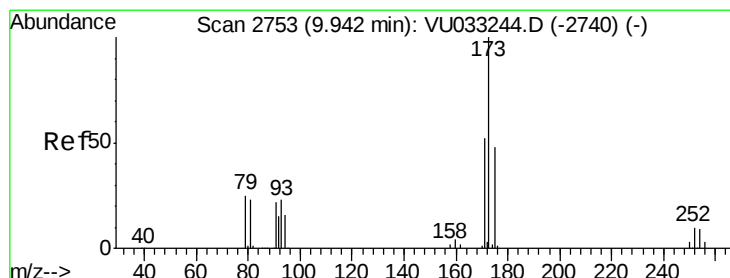
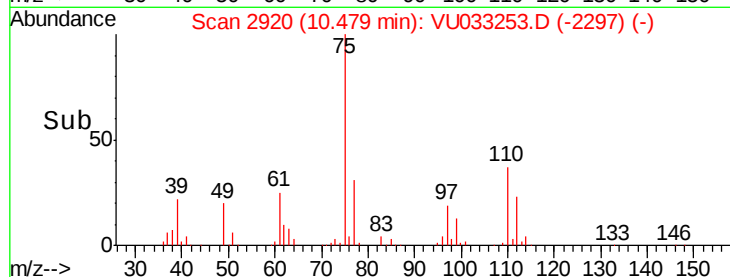
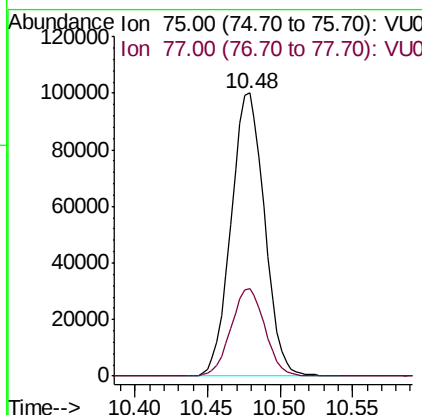
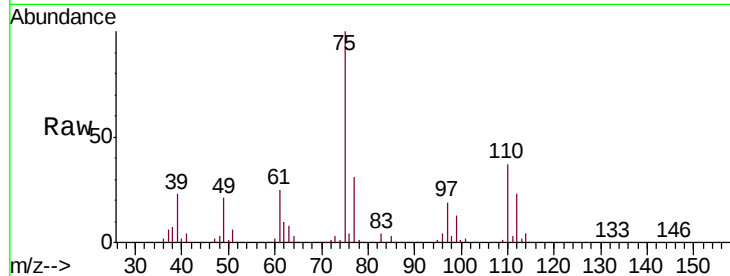




#59
 1,2,3-Trichloropropane
 Concen: 50.302 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

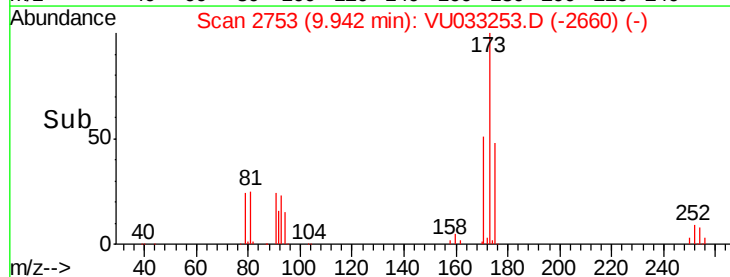
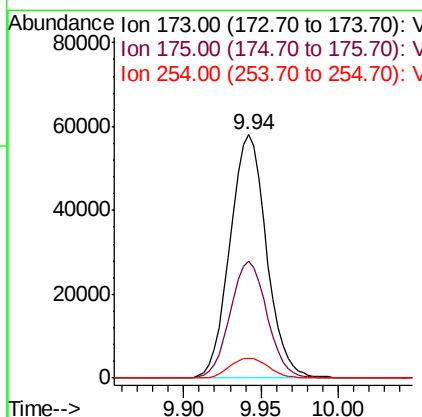
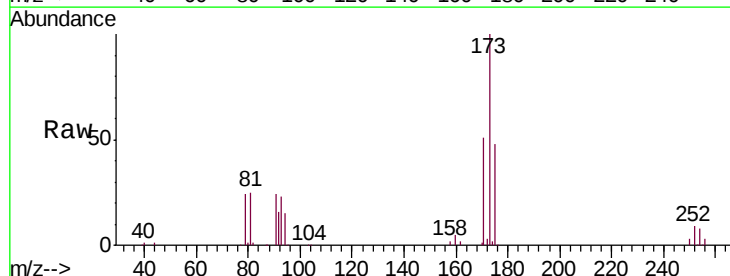
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

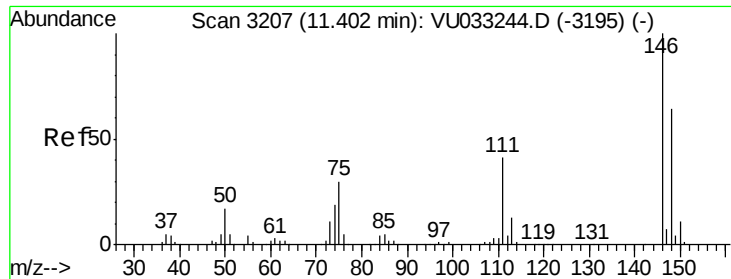
Tgt Ion: 75 Resp: 160132
 Ion Ratio Lower Upper
 75 100
 77 31.4 26.0 39.0



#61
 Bromoform
 Concen: 48.146 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

Tgt Ion: 173 Resp: 95189
 Ion Ratio Lower Upper
 173 100
 175 48.3 40.0 60.0
 254 8.7 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 49.868 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

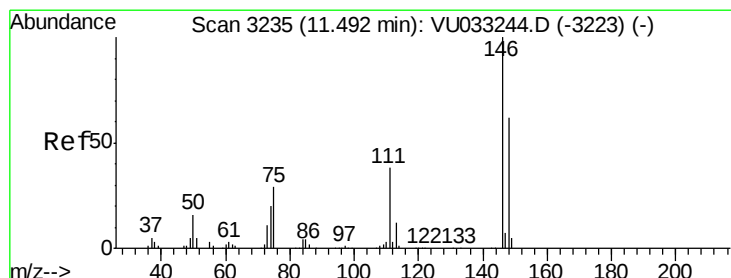
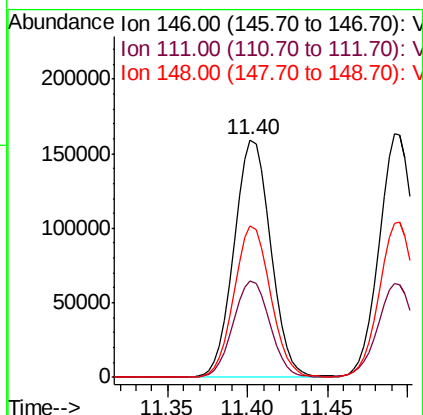
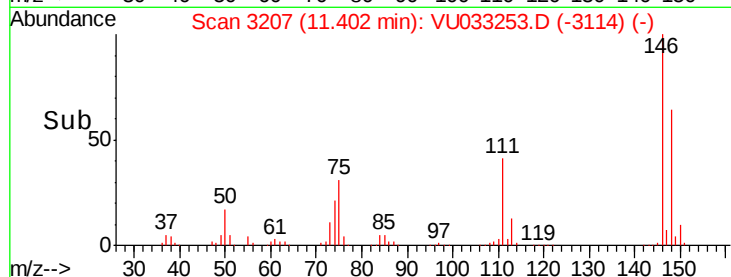
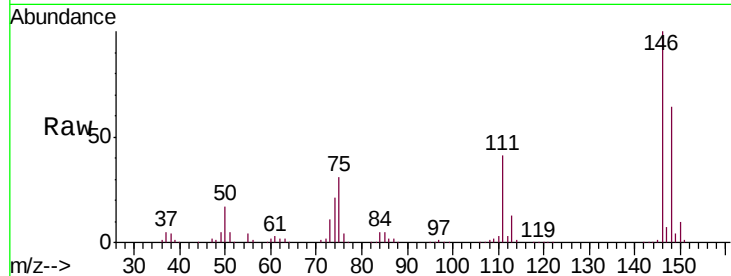
Tgt Ion:146 Resp: 248503

Ion Ratio Lower Upper

146 100

111 40.8 28.0 52.0

148 63.7 44.7 83.1



#63

1,4-Dichlorobenzene

Concen: 49.289 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

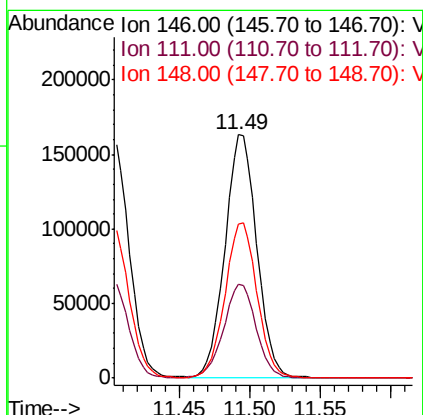
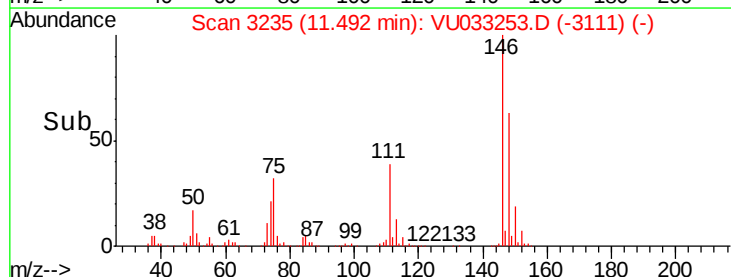
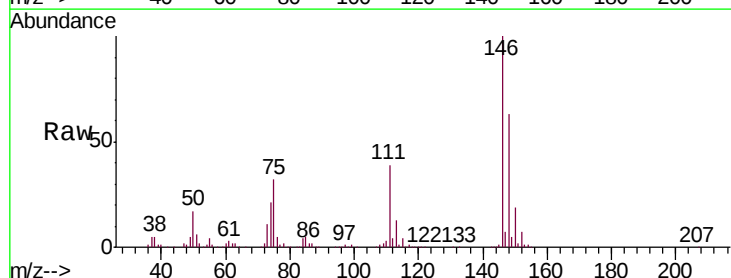
Tgt Ion:146 Resp: 256814

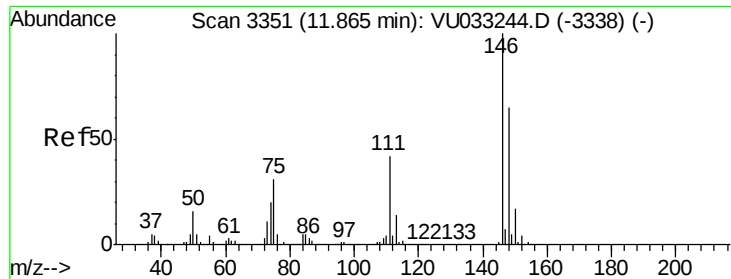
Ion Ratio Lower Upper

146 100

111 38.8 27.8 51.6

148 63.5 44.6 82.8

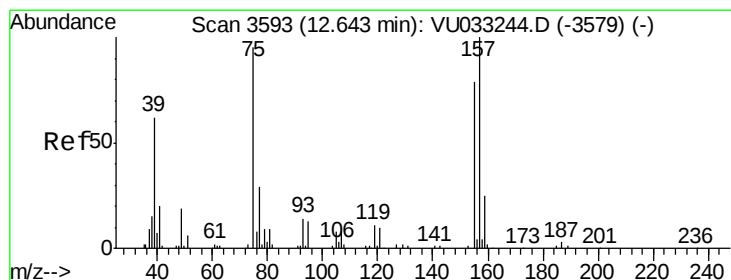
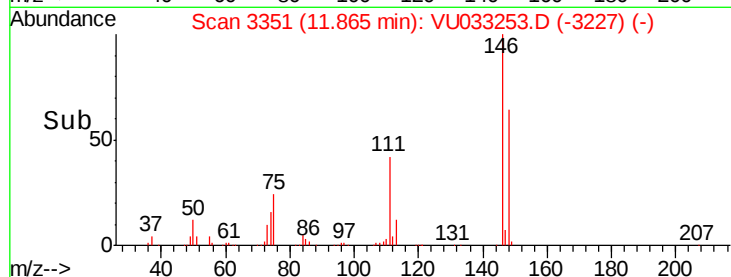
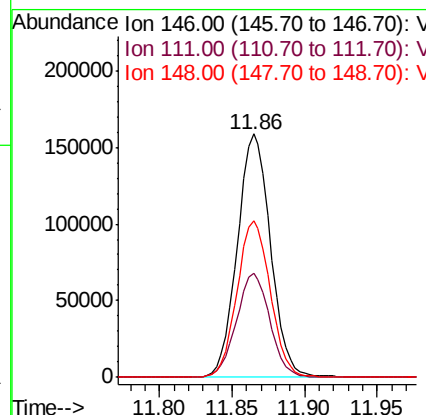
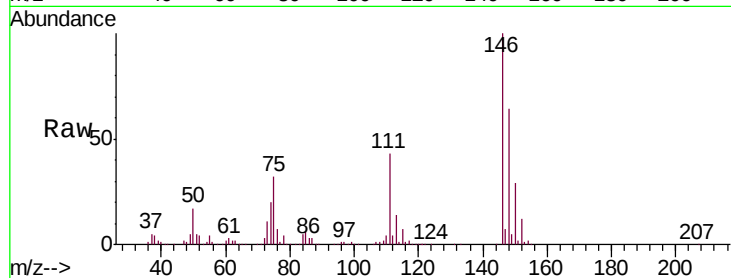




#65
 1,2-Dichlorobenzene
 Concen: 49.435 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

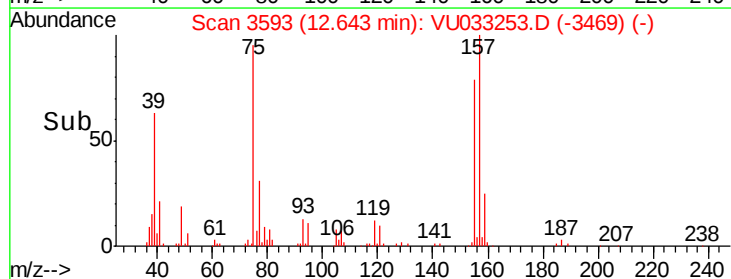
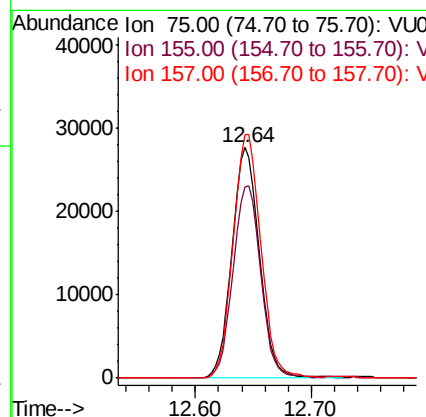
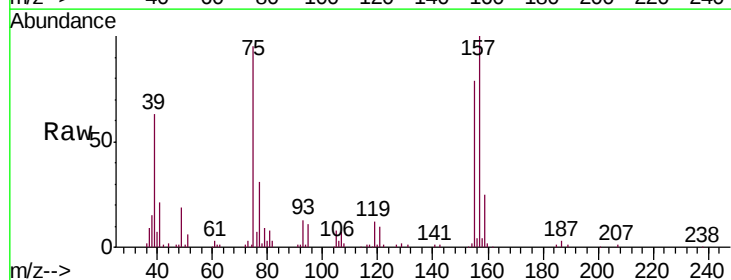
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

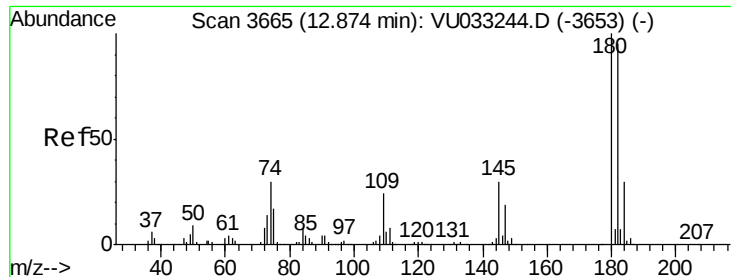
Tgt Ion: 146 Resp: 252647
 Ion Ratio Lower Upper
 146 100
 111 42.5 34.3 51.5
 148 64.3 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.464 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

Tgt Ion: 75 Resp: 45322
 Ion Ratio Lower Upper
 75 100
 155 83.1 63.5 95.3
 157 105.5 84.6 127.0

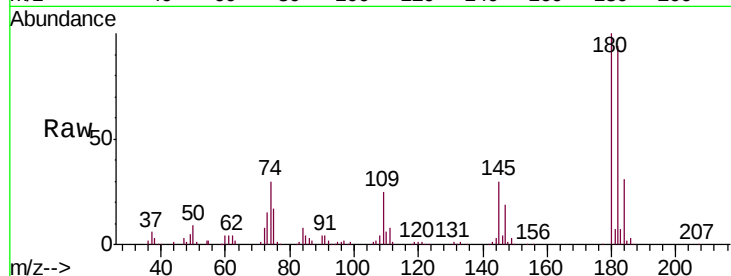




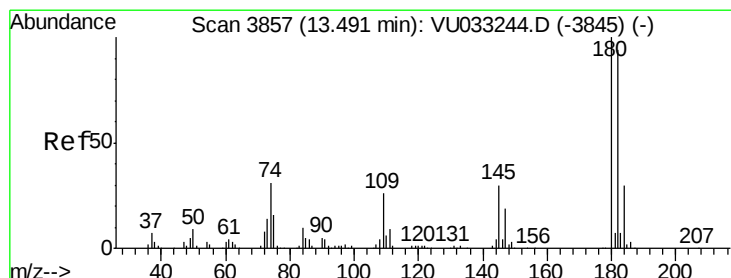
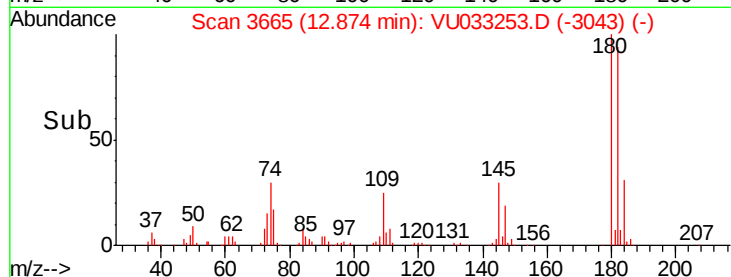
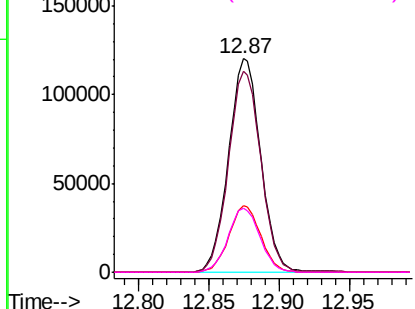
#67
 1,3,5-Trichlorobenzene
 Concen: 53.250 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:	180	Resp:	191773
Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.5	113.3
184	30.8	24.2	36.2
145	29.8	24.1	36.1

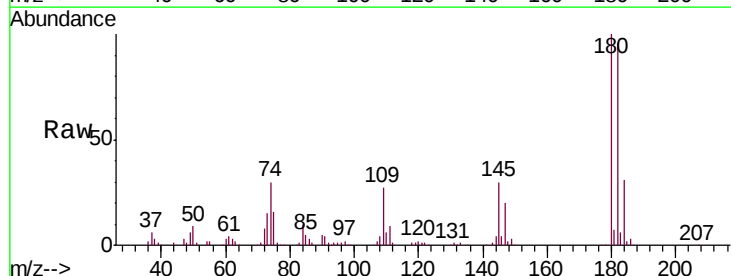


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

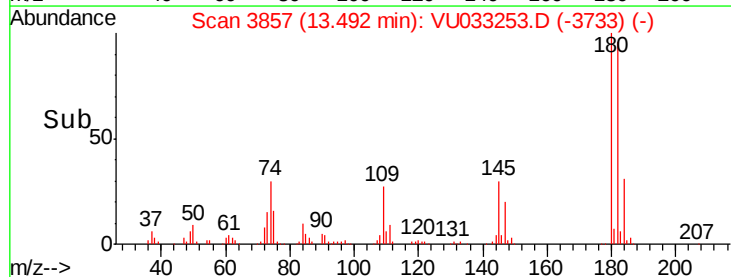
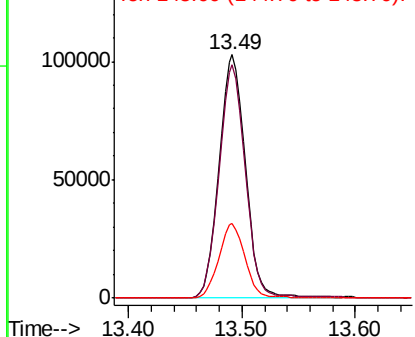


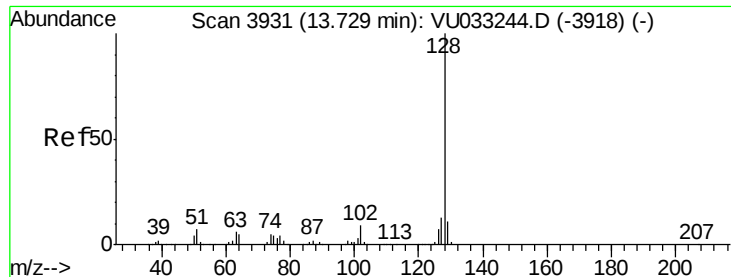
#68
 1,2,4-trichlorobenzene
 Concen: 53.078 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033253.D
 Acq: 15 Jul 2019 14:07

Tgt Ion:	180	Resp:	166965
Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.5	114.7
145	30.0	24.6	36.8



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: 53.137 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

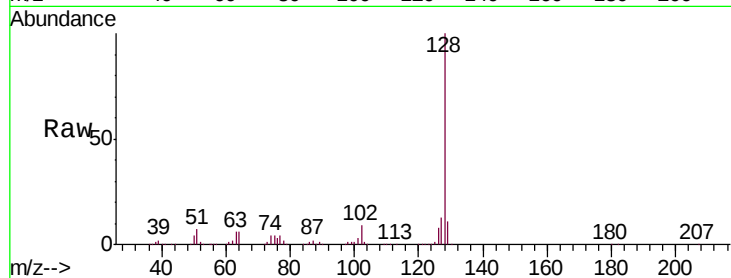
Tgt Ion:128 Resp: 535950

Ion Ratio Lower Upper

128 100

127 13.3 10.8 16.2

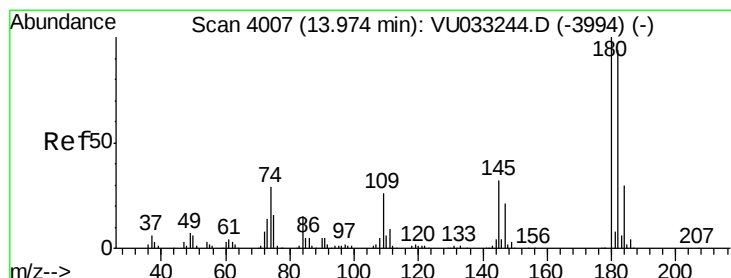
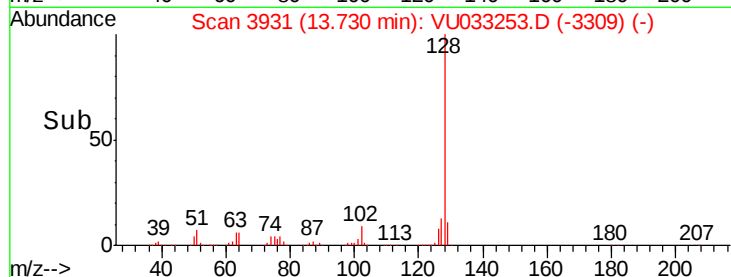
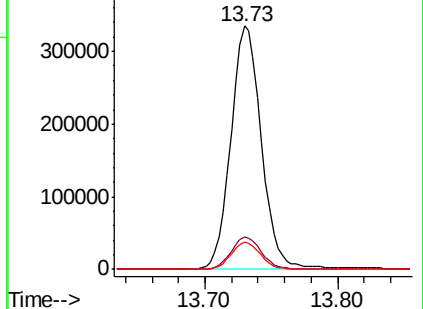
129 10.8 8.7 13.1



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: 52.318 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033253.D

Acq: 15 Jul 2019 14:07

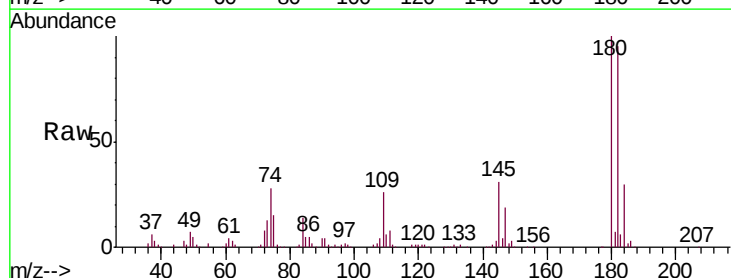
Tgt Ion:180 Resp: 178674

Ion Ratio Lower Upper

180 100

182 93.8 77.4 116.2

145 31.0 26.2 39.2



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

