

Data File : VU033343.D
Acq On : 19 Jul 2019 17:57
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

Quant Time: Jul 19 22:58:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 19 22:54:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	286188	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	283879	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	144157	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	108344	50.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.02%
7) Chloroethane-d5	1.67	69	98081	52.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.98%
11) 1,1-Dichloroethene-d2	2.26	63	198513	50.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.04%
21) 2-Butanone-d5	4.15	46	169279	123.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	123.32%
24) Chloroform-d	4.62	84	192459	53.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.02%
26) 1,2-Dichloroethane-d4	5.29	65	123246	52.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.86%
32) Benzene-d6	5.32	84	382231	54.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.78%
36) 1,2-Dichloropropane-d6	6.31	67	122351	54.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.70%
41) Toluene-d8	7.55	98	353435	53.82	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.64%
43) trans-1,3-Dichloropropene-	7.83	79	61464	56.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	112.38%
47) 2-Hexanone-d5	8.29	63	123460	122.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	122.76%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	185521	54.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	109.90%
64) 1,2-Dichlorobenzene-d4	11.85	152	138358	53.82	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.64%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	133785	47.172 ug/L	99
3) Chloromethane	1.32	50	138644	49.621 ug/L	100
5) Vinyl chloride	1.40	62	157708	48.834 ug/L	100
6) Bromomethane	1.61	94	97374	48.365 ug/L	98
8) Chloroethane	1.69	64	96475	49.389 ug/L	97
9) Trichlorofluoromethane	1.87	101	208725	49.151 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	96830	49.595 ug/L	98
12) 1,1-Dichloroethene	2.27	96	92393	48.368 ug/L	97
13) Acetone	2.31	43	132704	77.374 ug/L	99
14) Carbon disulfide	2.46	76	267285	45.751 ug/L	100
15) Methyl Acetate	2.60	43	124432	55.557 ug/L	98
16) Methylene chloride	2.68	84	110960	50.876 ug/L	96
17) trans-1,2-Dichloroethene	2.96	96	98710	49.999 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	325044	53.340 ug/L	100
19) 1,1-Dichloroethane	3.42	63	195050	51.397 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	114146	51.259 ug/L	99
22) 2-Butanone	4.23	43	182875	95.983 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	58325	51.149	ug/L	95
25) Chloroform	4.65	83	204707	50.719	ug/L	99
27) 1,2-Dichloroethane	5.38	62	164281	52.564	ug/L	99
29) Cyclohexane	4.97	56	169058	54.653	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	169558	51.197	ug/L	100
31) Carbon tetrachloride	5.11	117	150155	51.808	ug/L	98
33) Benzene	5.37	78	436581	52.736	ug/L	100
34) Trichloroethene	6.16	95	109555	50.600	ug/L	97
35) Methylcyclohexane	6.40	83	177876	53.632	ug/L	99
37) 1,2-Dichloropropane	6.41	63	119330	53.150	ug/L	99
38) Bromodichloromethane	6.74	83	150532	51.978	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	185335	53.840	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	341658	113.438	ug/L	98
42) Toluene	7.62	91	479259	53.697	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	168476	54.269	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	111294	52.413	ug/L	99
46) Tetrachloroethene	8.21	164	86250	51.460	ug/L	98
48) 2-Hexanone	8.34	43	273121	111.311	ug/L	99
49) Dibromochloromethane	8.46	129	121724	51.390	ug/L	99
50) 1,2-Dibromoethane	8.57	107	121762	52.593	ug/L	97
51) Chlorobenzene	9.10	112	304122	52.204	ug/L	100
52) Ethylbenzene	9.23	91	518543	54.294	ug/L	99
53) m,p-Xylene	9.36	106	195797	54.125	ug/L	100
54) o-xylene	9.76	106	195936	54.548	ug/L	96
55) Styrene	9.77	104	331193	54.384	ug/L	97
56) Isopropylbenzene	10.15	105	507963	54.956	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	193483	51.875	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	153419	52.490	ug/L	100
61) Bromoform	9.94	173	86939	49.381	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	231743	52.223	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	233924	50.417	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	235195	51.680	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	42070	48.434	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	168844	52.649	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	148998	53.191	ug/L	99
69) Naphthalene	13.73	128	504330	56.152	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	153714	50.545	ug/L	100

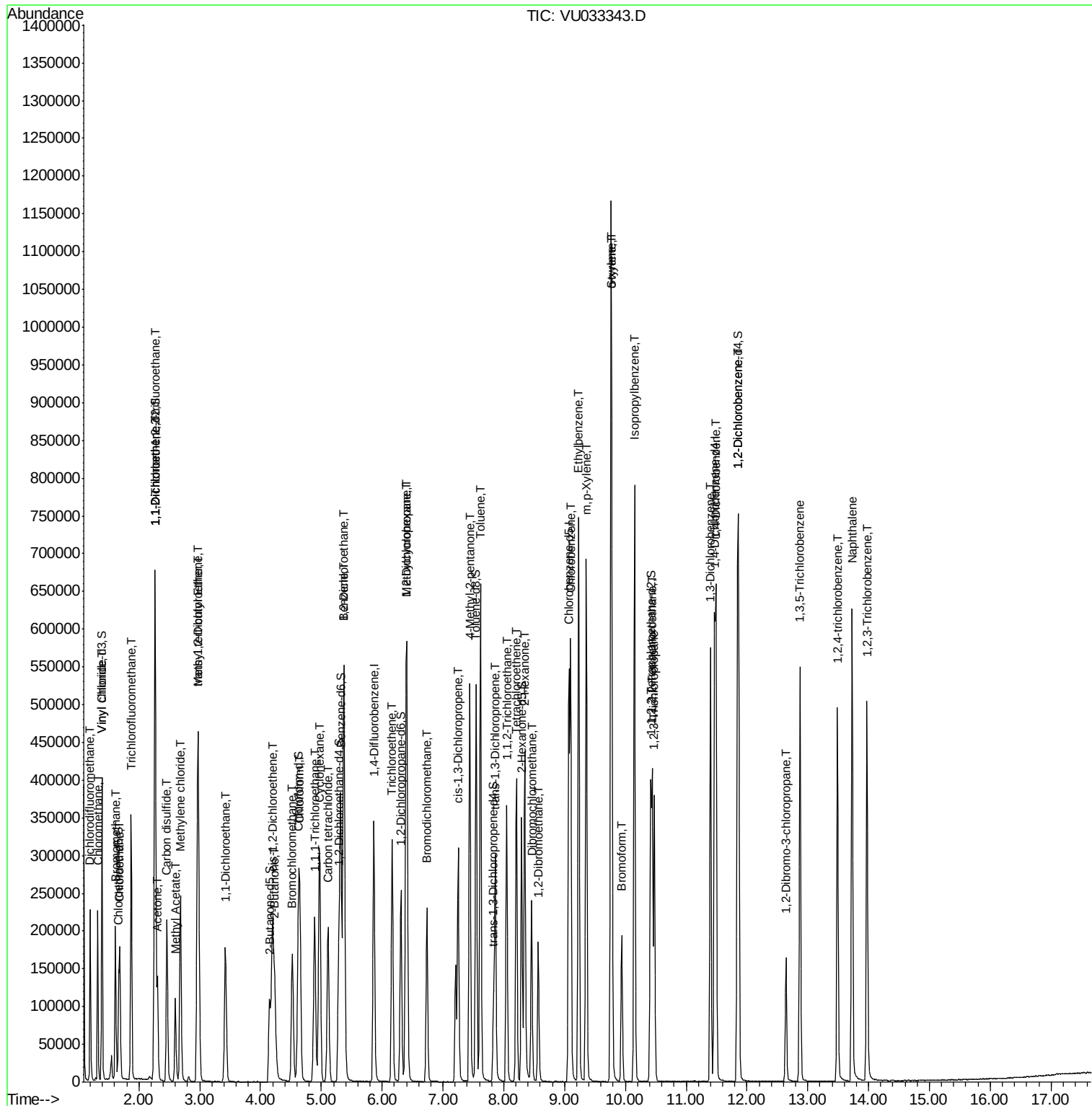
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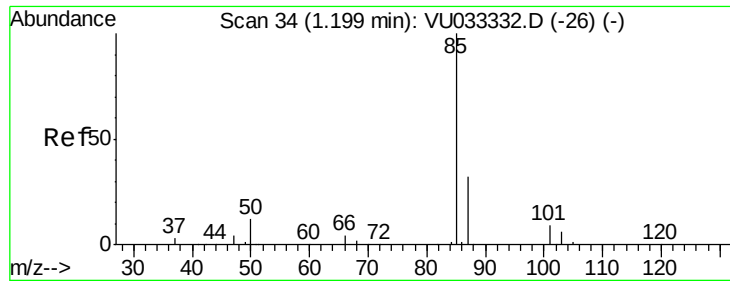
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#2

Dichlorodifluoromethane

Concen: 47.172 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

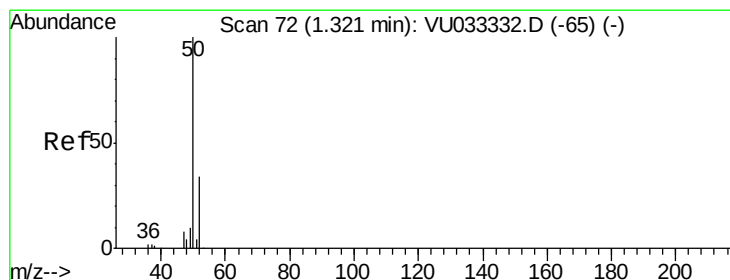
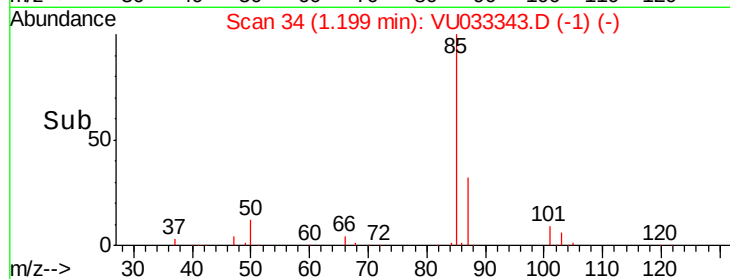
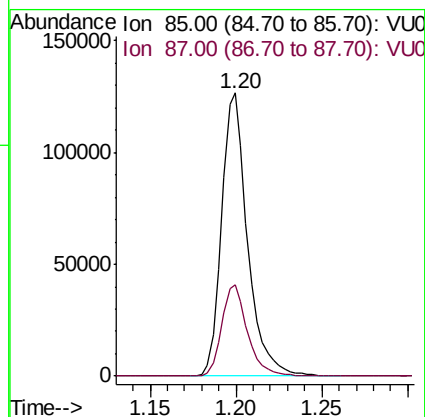
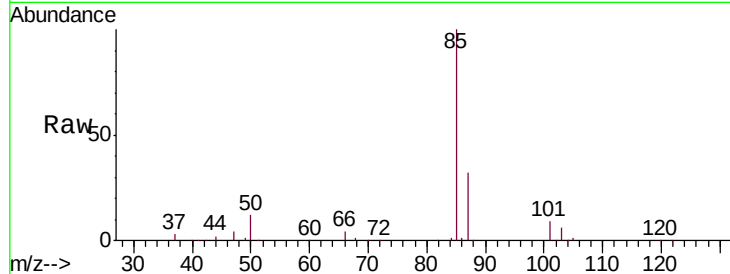
VSTD05054

Tgt Ion: 85 Resp: 133785

Ion Ratio Lower Upper

85 100

87 32.1 25.4 38.2



#3

Chloromethane

Concen: 49.621 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033343.D

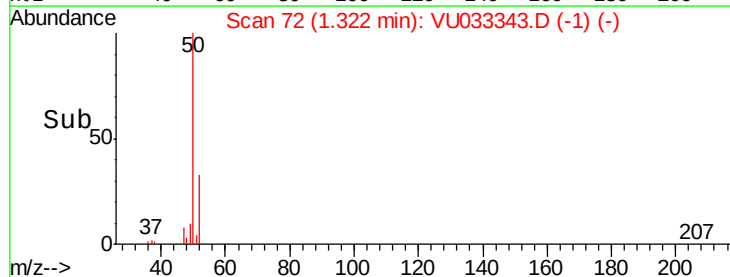
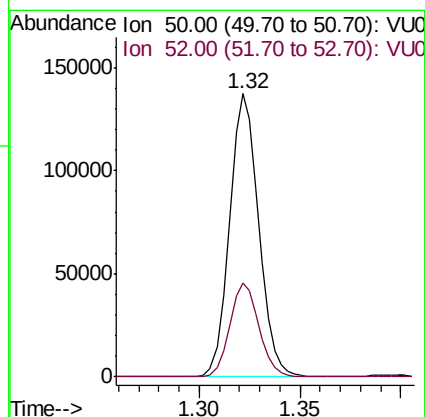
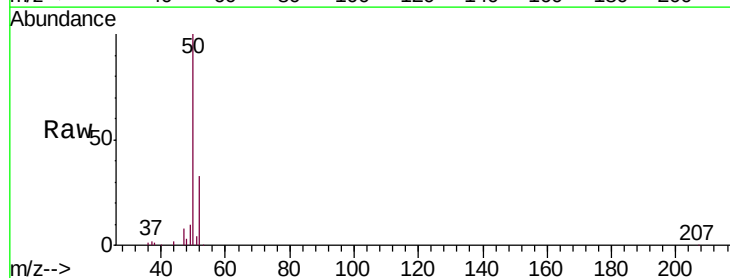
Acq: 19 Jul 2019 17:57

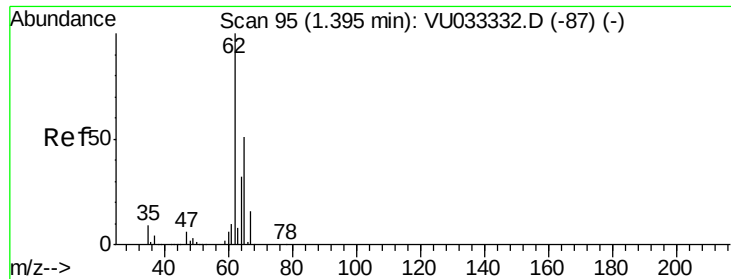
Tgt Ion: 50 Resp: 138644

Ion Ratio Lower Upper

50 100

52 33.3 23.2 43.0





#5

Vinyl chloride

Concen: 48.834 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

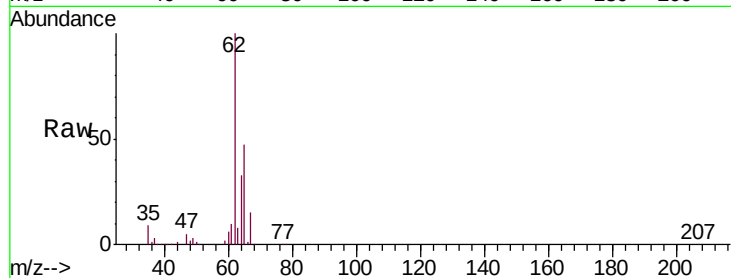
VSTD05054

Tgt Ion: 62 Resp: 157708

Ion Ratio Lower Upper

62 100

64 32.5 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU033332.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033332.D (-87) (-)

1.40

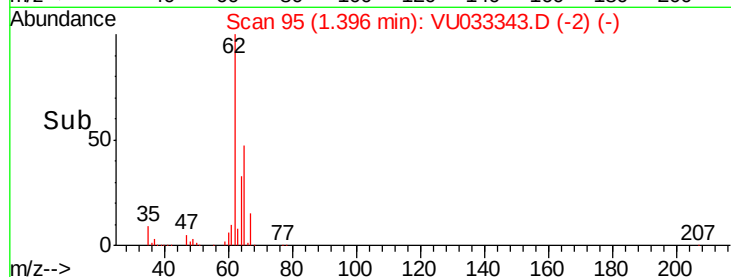
150000

100000

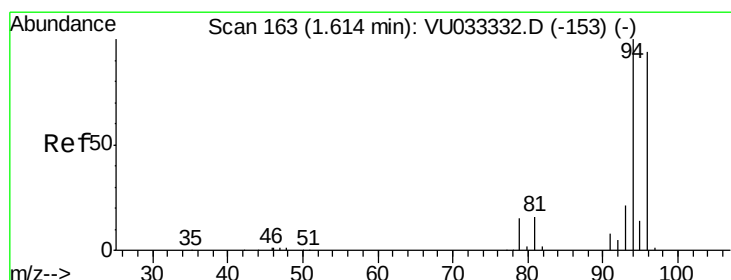
50000

0

Time-->



Time-->



#6

Bromomethane

Concen: 48.365 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU033343.D

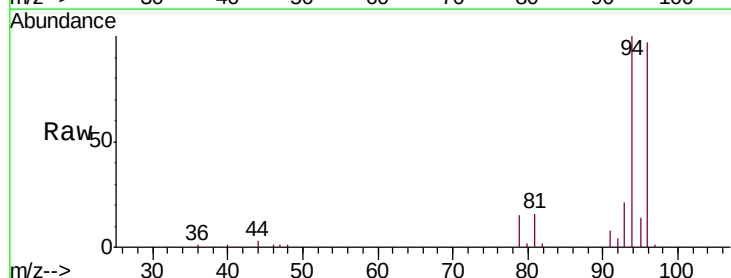
Acq: 19 Jul 2019 17:57

Tgt Ion: 94 Resp: 97374

Ion Ratio Lower Upper

94 100

96 96.5 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU033332.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU033332.D (-153) (-)

1.61

80000

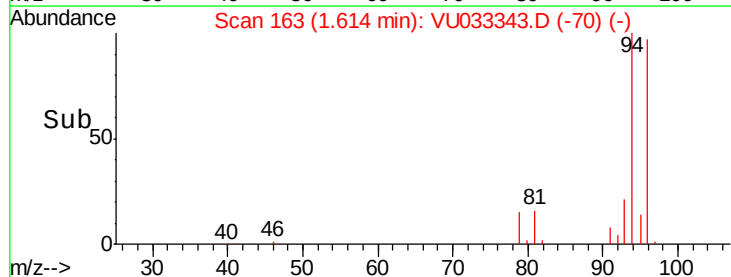
60000

40000

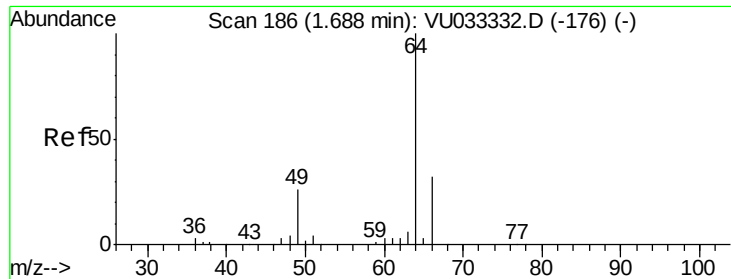
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0

Time-->



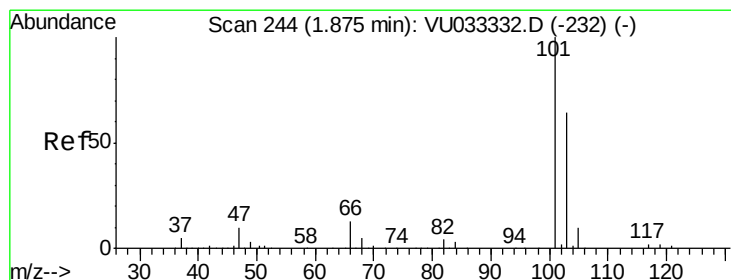
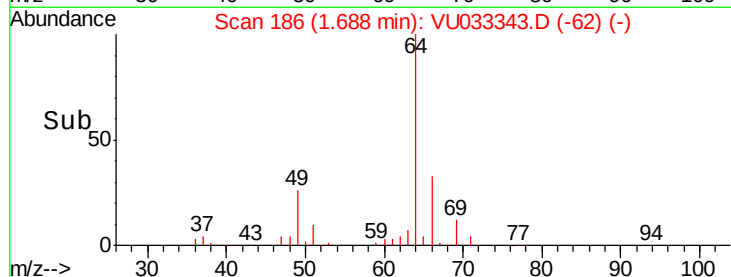
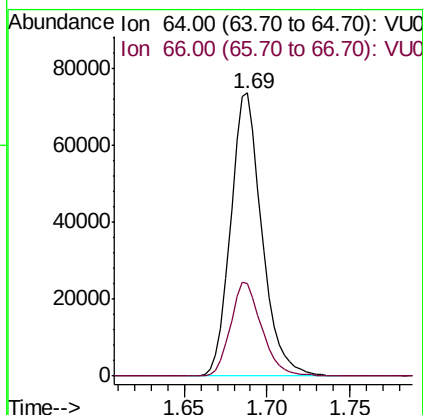
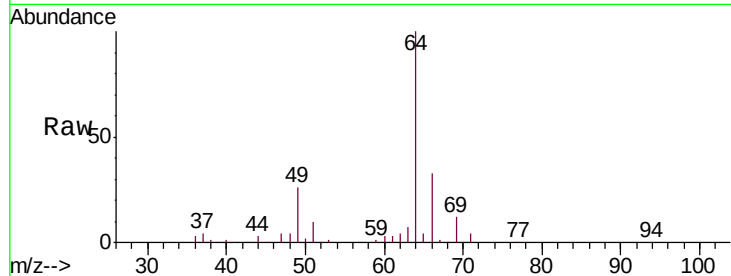
Time-->



#8
Chloroethane
Concen: 49.389 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

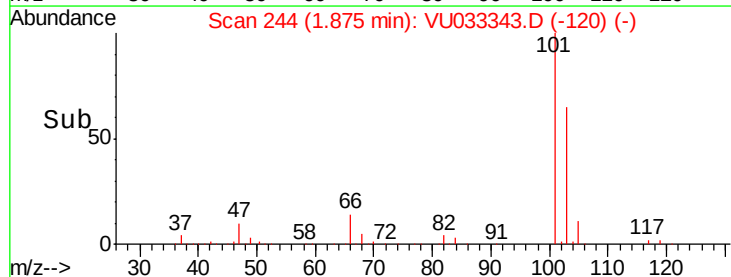
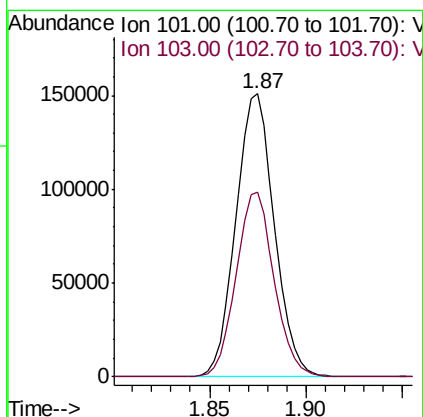
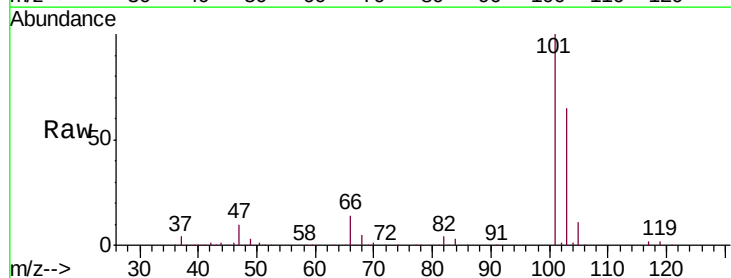
Instrument :
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ClientSampleId :
VSTD05054

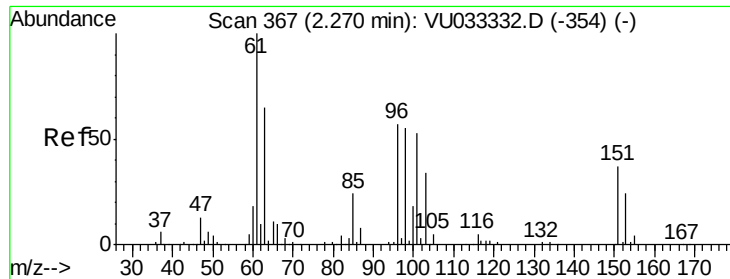
Tgt Ion: 64 Resp: 96475
Ion Ratio Lower Upper
64 100
66 32.5 21.6 40.0



#9
Trichlorofluoromethane
Concen: 49.151 ug/L
RT: 1.87 min Scan# 244
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

Tgt Ion: 101 Resp: 208725
Ion Ratio Lower Upper
101 100
103 64.4 52.2 78.4





#10

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

Concen: 49.595 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

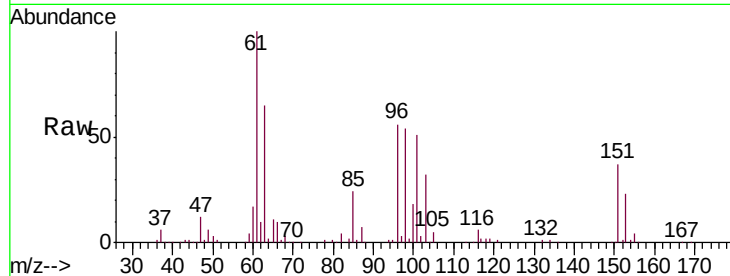
Tgt Ion:101 Resp: 96830

Ion Ratio Lower Upper

101 100

85 45.3 35.8 53.8

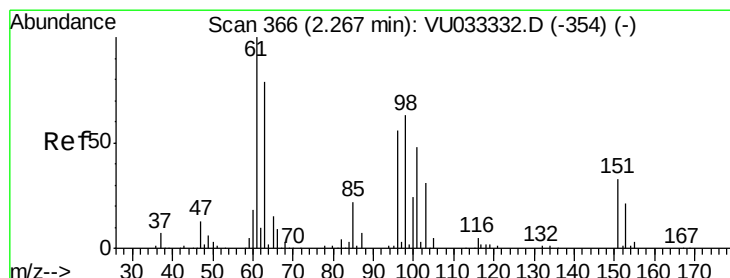
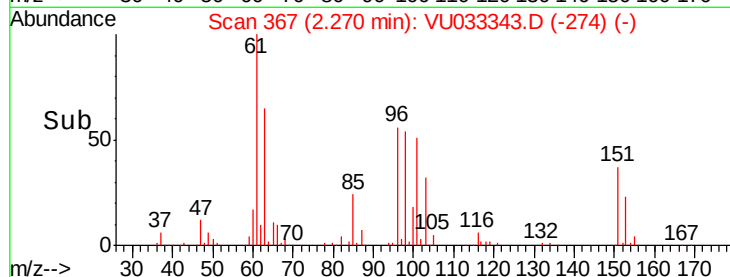
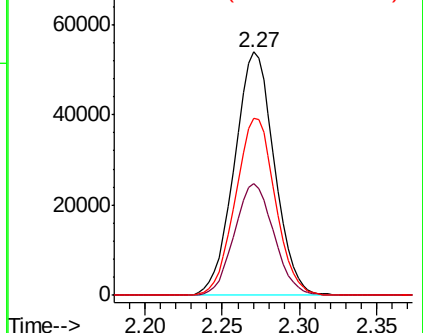
151 72.6 56.7 85.1



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: 48.368 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

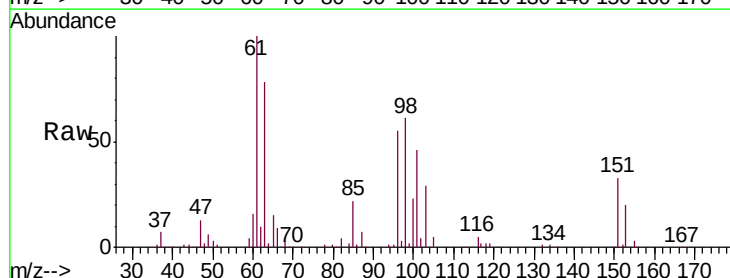
Tgt Ion: 96 Resp: 92393

Ion Ratio Lower Upper

96 100

61 182.7 126.1 234.1

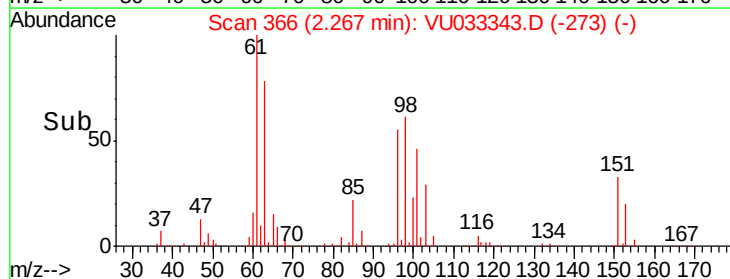
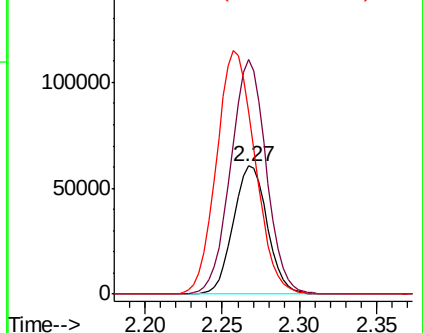
63 142.5 96.8 179.8

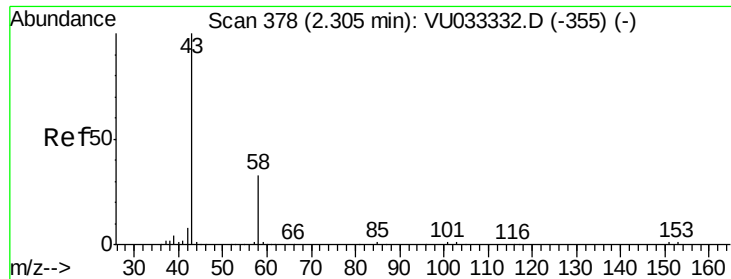


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 77.374 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

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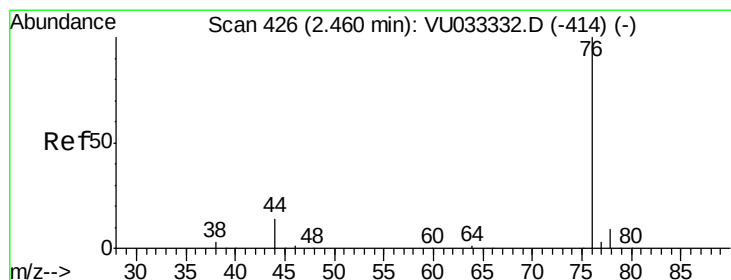
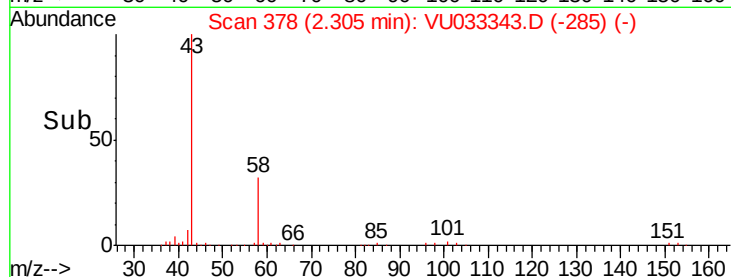
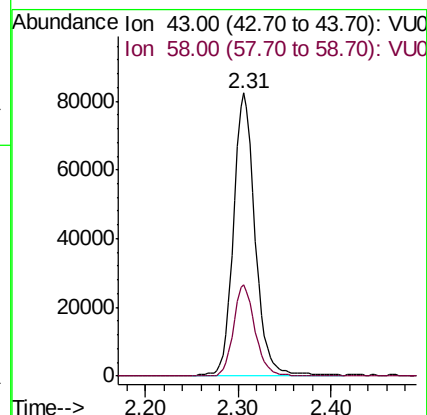
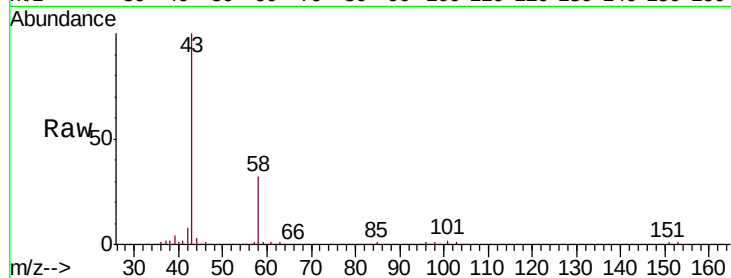
VSTD05054

Tgt Ion: 43 Resp: 132704

Ion Ratio Lower Upper

43 100

58 32.3 0.0 65.4



#14

Carbon disulfide

Concen: 45.751 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033343.D

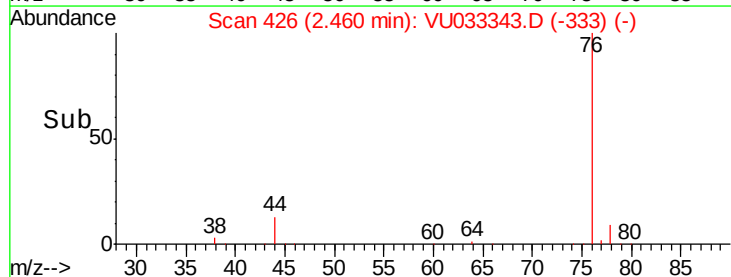
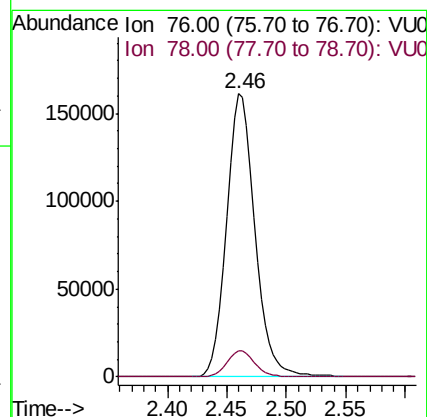
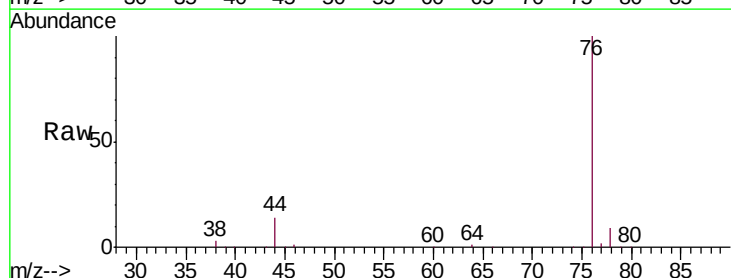
Acq: 19 Jul 2019 17:57

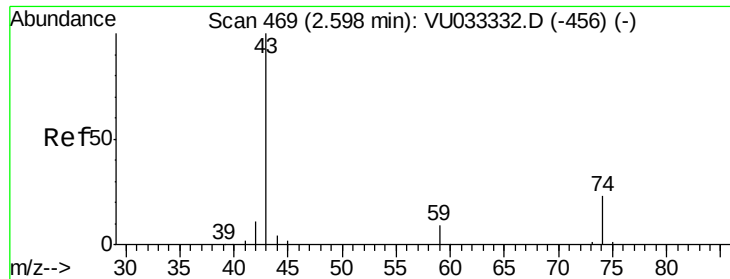
Tgt Ion: 76 Resp: 267285

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2

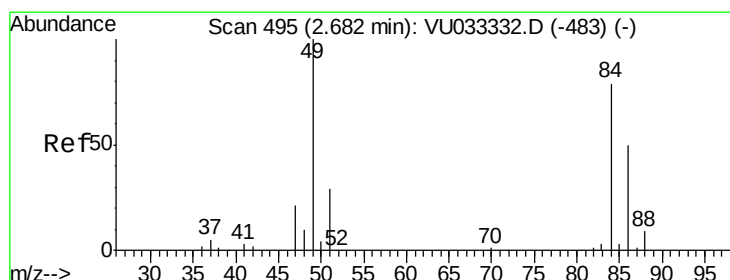
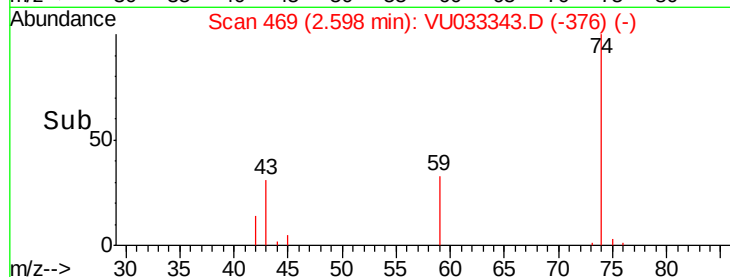
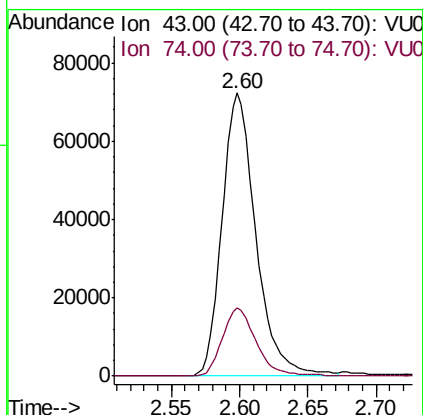
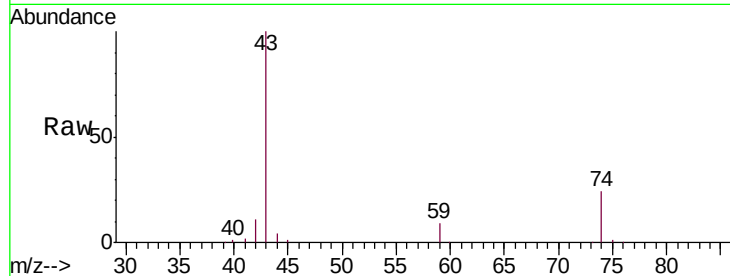




#15
Methyl Acetate
Concen: 55.557 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

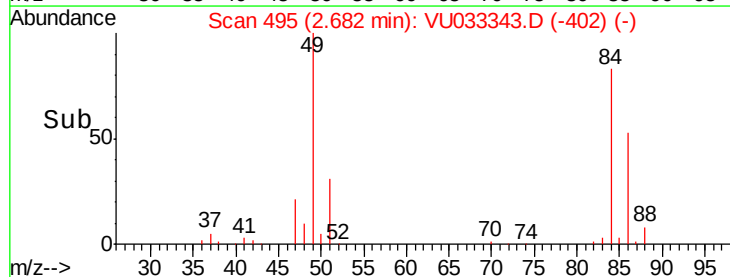
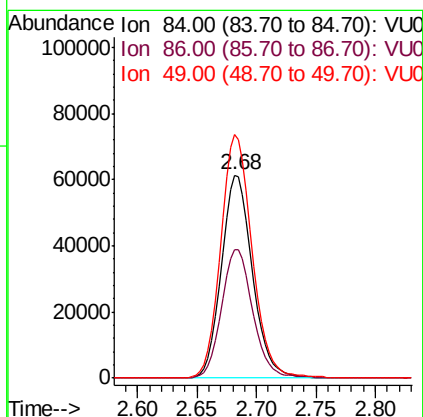
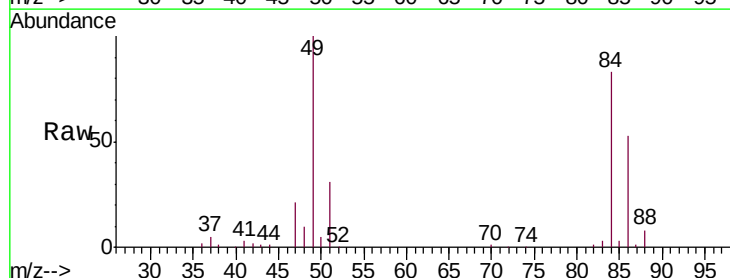
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

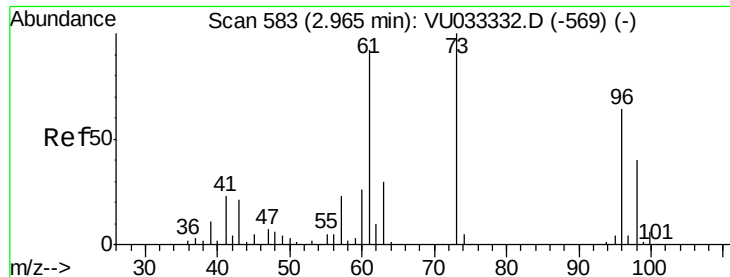
Tgt Ion: 43 Resp: 124432
Ion Ratio Lower Upper
43 100
74 23.9 19.9 29.9



#16
Methylene chloride
Concen: 50.876 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

Tgt Ion: 84 Resp: 110960
Ion Ratio Lower Upper
84 100
86 63.4 45.7 84.9
49 119.8 87.7 162.9

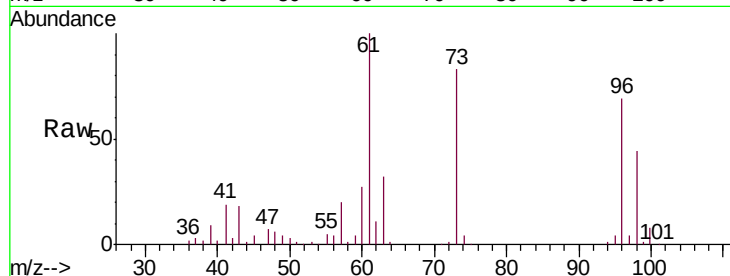




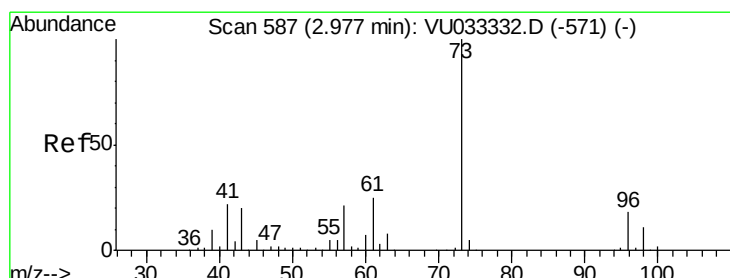
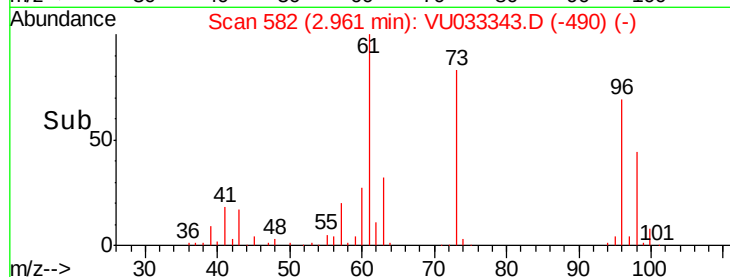
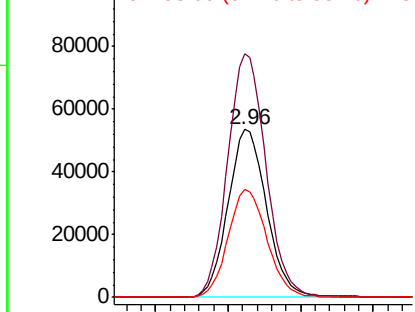
#17
trans-1,2-Dichloroethene
Concen: 49.999 ug/L
RT: 2.96 min Scan# 582
Delta R.T. -0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

Tgt Ion: 96 Resp: 98710
Ion Ratio Lower Upper
96 100
61 145.3 100.2 186.2
98 64.1 44.2 82.0

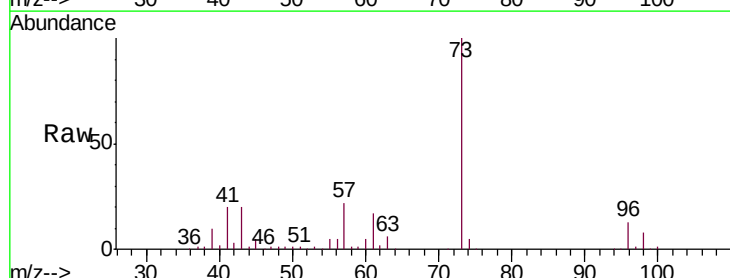


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

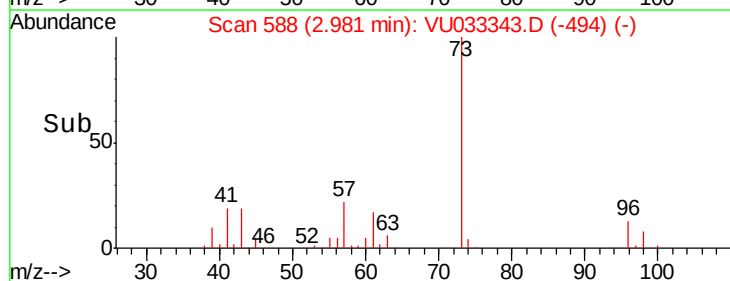
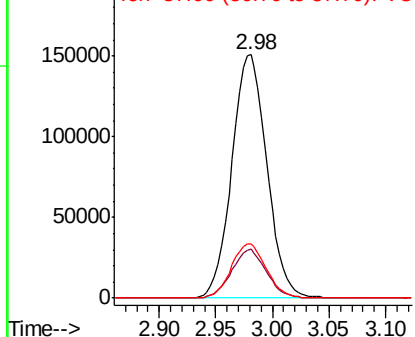


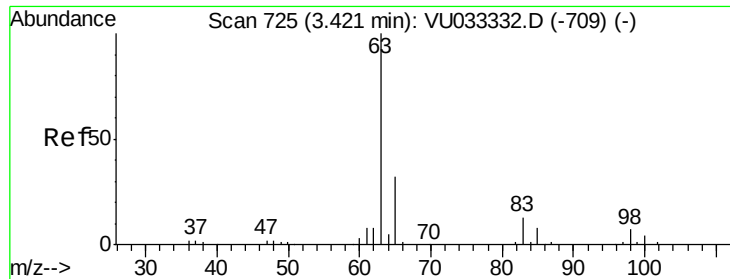
#18
Methyl tert-butyl Ether
Concen: 53.340 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

Tgt Ion: 73 Resp: 325044
Ion Ratio Lower Upper
73 100
43 19.9 15.7 23.5
57 22.3 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

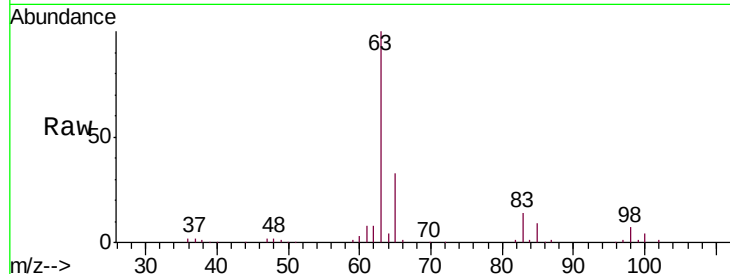




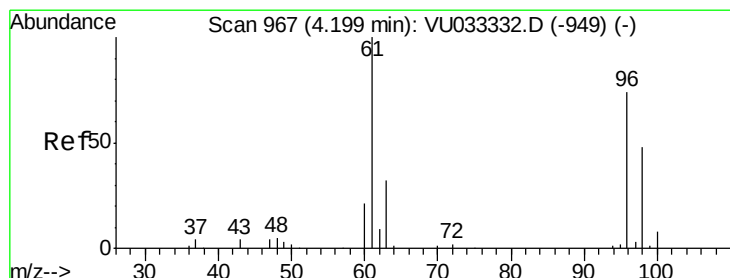
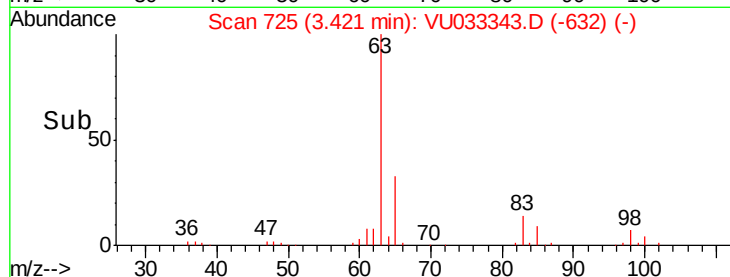
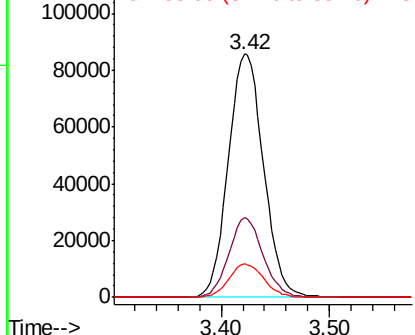
#19
 1,1-Dichloroethane
 Concen: 51.397 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Tgt Ion: 63 Resp: 195050
 Ion Ratio Lower Upper
 63 100
 65 33.0 22.3 41.5
 83 13.8 9.3 17.3

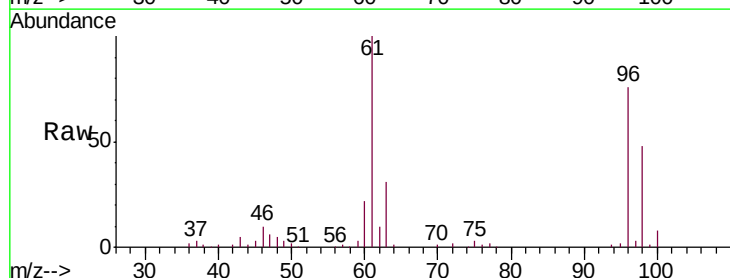


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

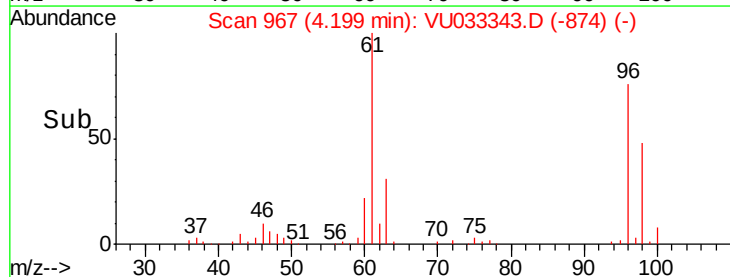
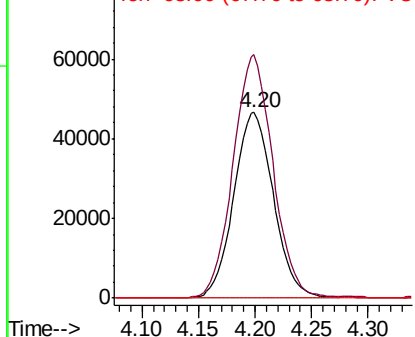


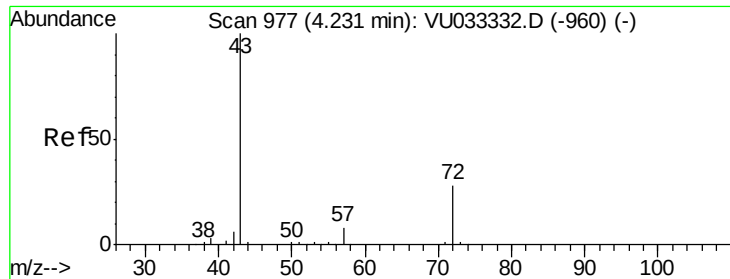
#20
 cis-1,2-Dichloroethene
 Concen: 51.259 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Tgt Ion: 96 Resp: 114146
 Ion Ratio Lower Upper
 96 100
 61 131.0 91.1 169.1
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 95.983 ug/L

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

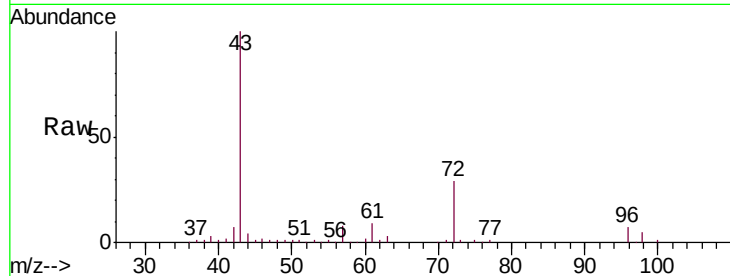
VSTD05054

Tgt Ion: 43 Resp: 182875

Ion Ratio Lower Upper

43 100

72 29.2 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033332.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU033332.D (-960) (-)

4.23

80000

60000

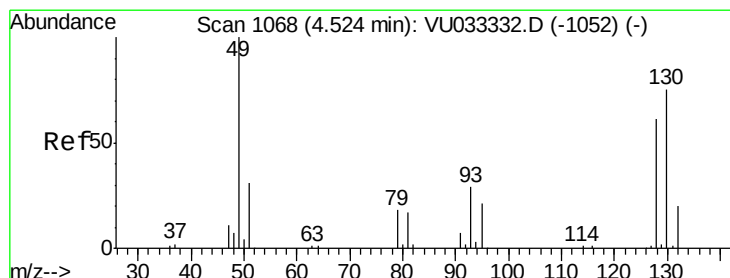
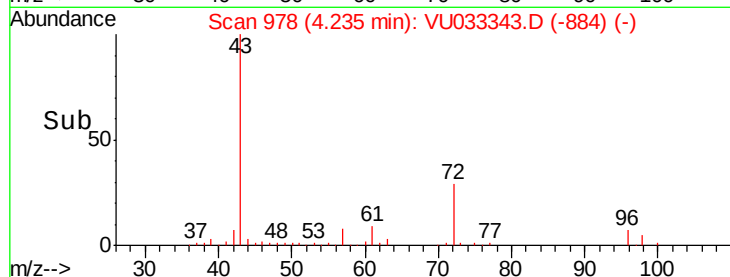
40000

20000

0

4.20 4.30

Time-->



#23

Bromochloromethane

Concen: 51.149 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Tgt Ion: 128 Resp: 58325

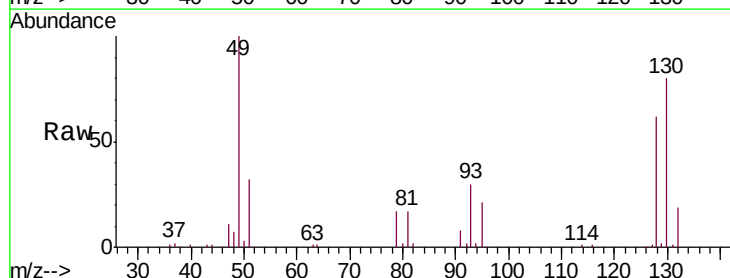
Ion Ratio Lower Upper

128 100

49 161.6 107.2 199.2

130 128.6 87.0 161.6

51 51.3 39.6 59.4



Abundance Ion 128.00 (127.70 to 128.70): VU033332.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033332.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033332.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033332.D (-1052) (-)

4.52

60000

50000

40000

30000

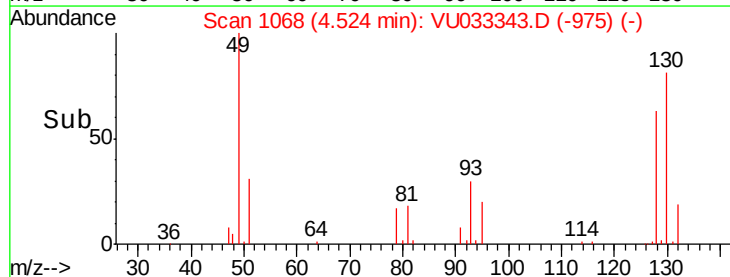
20000

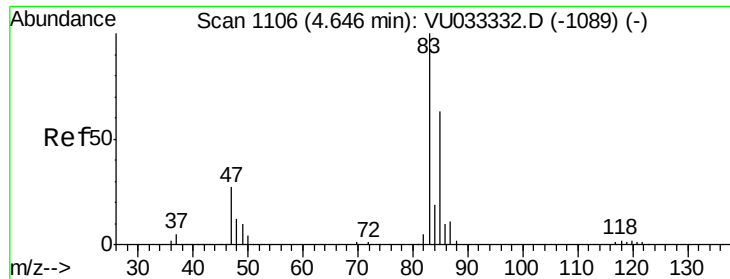
10000

0

4.45 4.50 4.55 4.60

Time-->

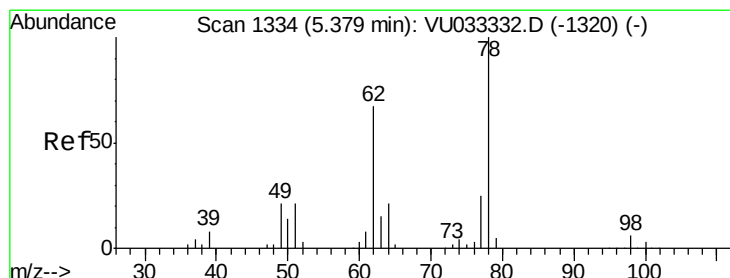
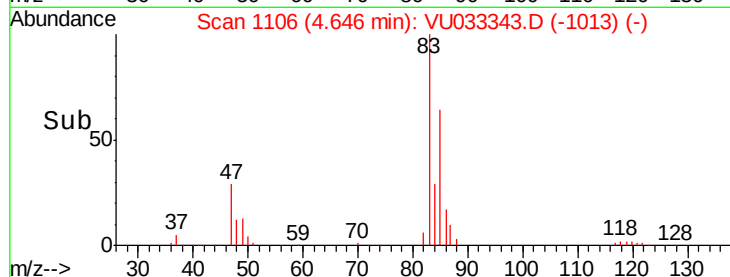
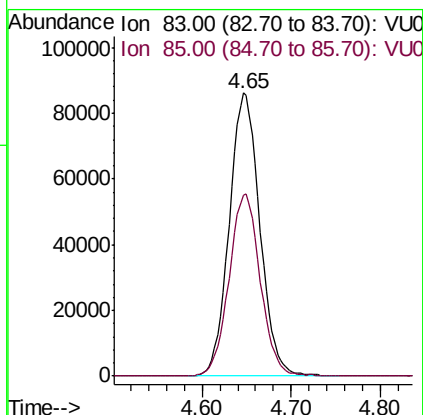
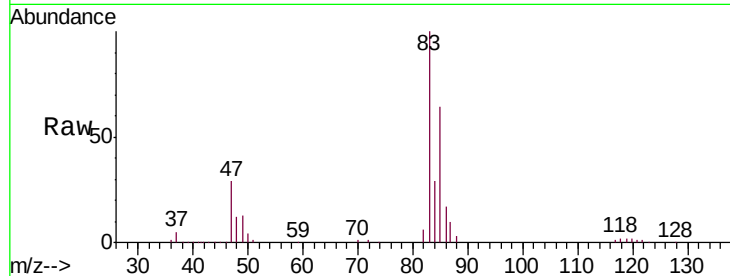




#25
Chloroform
Concen: 50.719 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

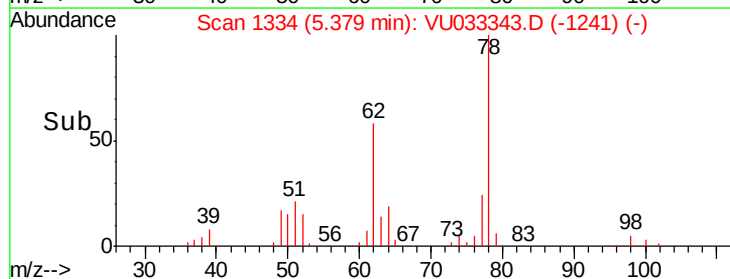
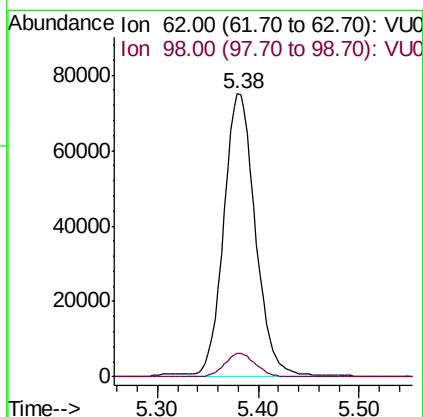
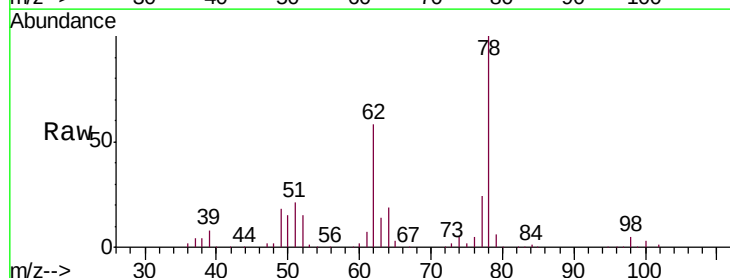
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

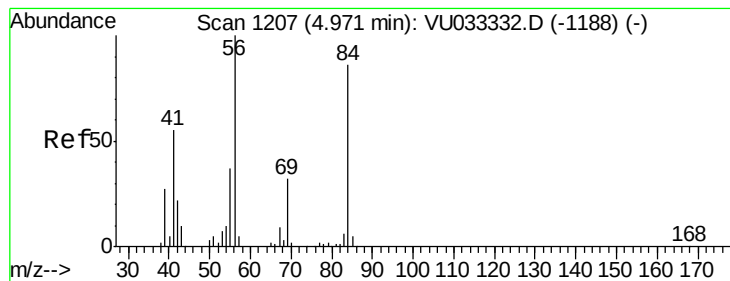
Tgt Ion: 83 Resp: 204707
Ion Ratio Lower Upper
83 100
85 64.0 45.4 84.4



#27
1,2-Dichloroethane
Concen: 52.564 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

Tgt Ion: 62 Resp: 164281
Ion Ratio Lower Upper
62 100
98 8.4 7.0 10.6





#29

Cyclohexane

Concen: 54.653 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

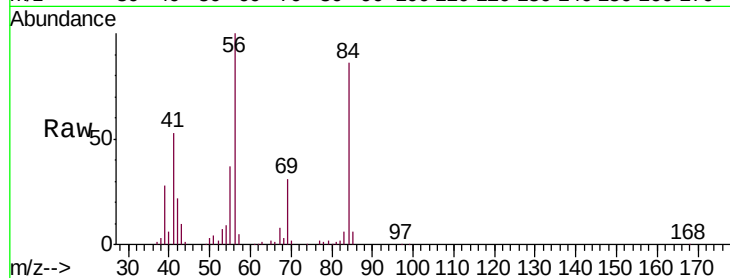
Tgt Ion: 56 Resp: 169058

Ion Ratio Lower Upper

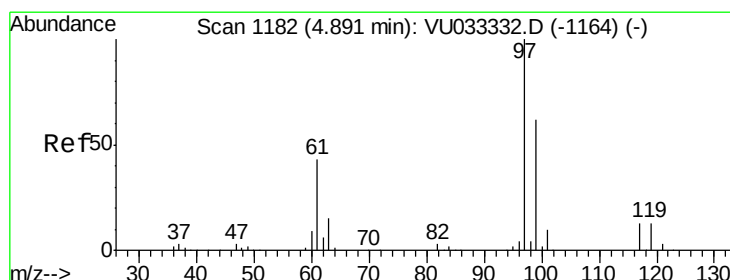
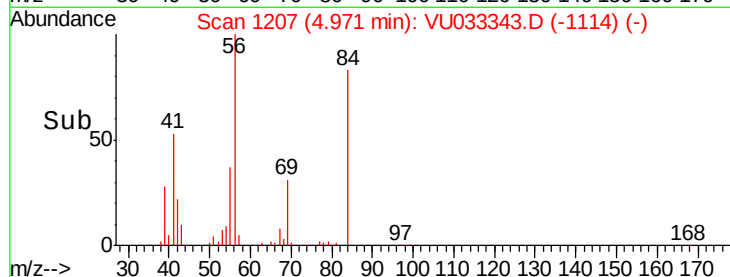
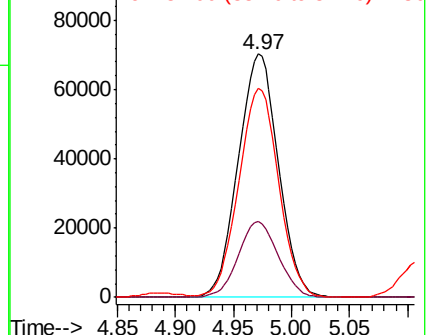
56 100

69 30.9 24.7 37.1

84 85.7 70.2 105.2



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



#30

1,1,1-Trichloroethane

Concen: 51.197 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

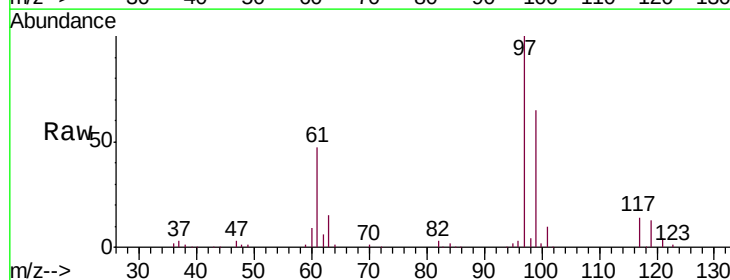
Tgt Ion: 97 Resp: 169558

Ion Ratio Lower Upper

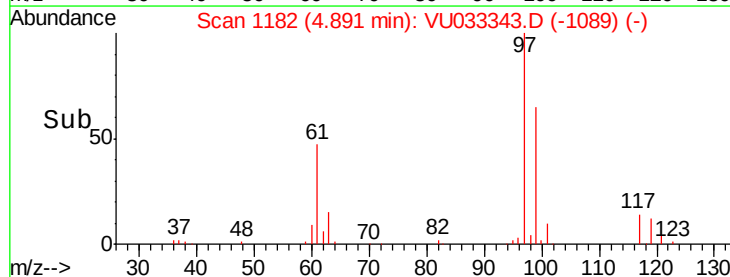
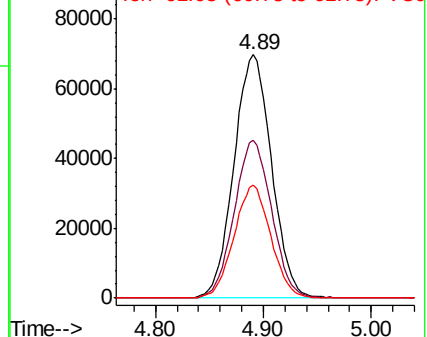
97 100

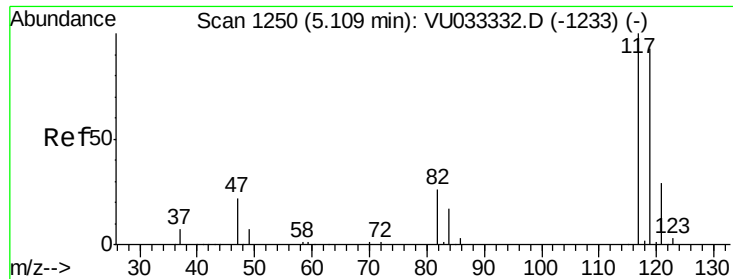
99 64.3 51.5 77.3

61 45.4 36.4 54.6



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





#31

Carbon tetrachloride

Concen: 51.808 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

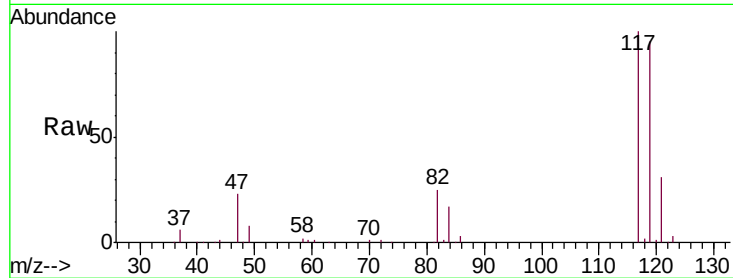
VSTD05054

Tgt Ion:117 Resp: 150155

Ion Ratio Lower Upper

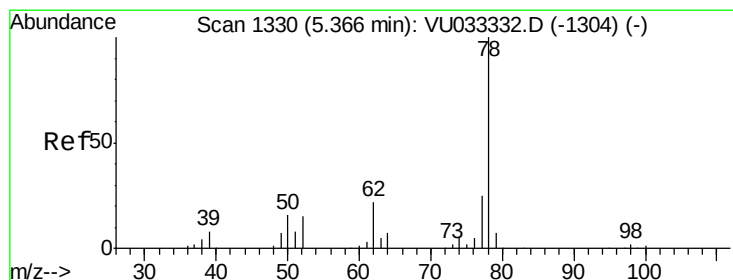
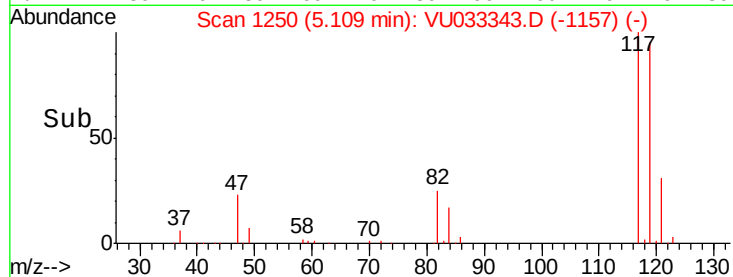
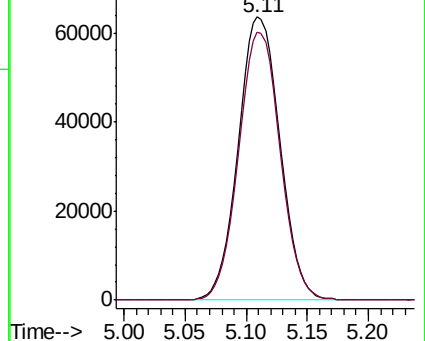
117 100

119 94.4 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: 52.736 ug/L

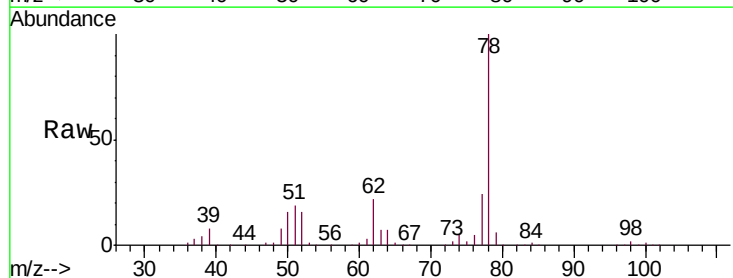
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

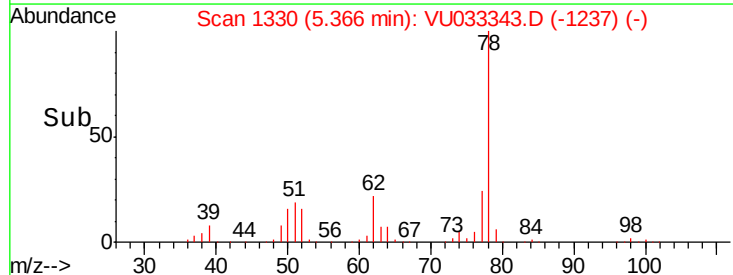
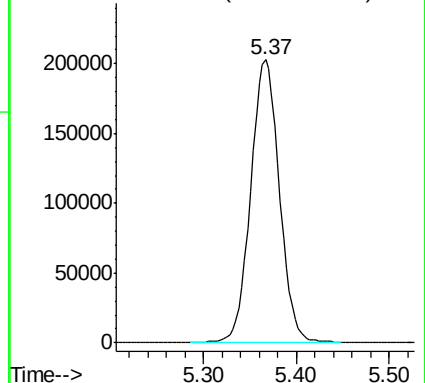
Lab File: VU033343.D

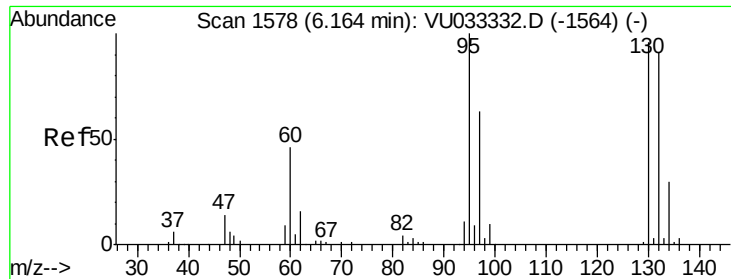
Acq: 19 Jul 2019 17:57

Tgt Ion: 78 Resp: 436581



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.600 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

Tgt Ion: 95 Resp: 109555

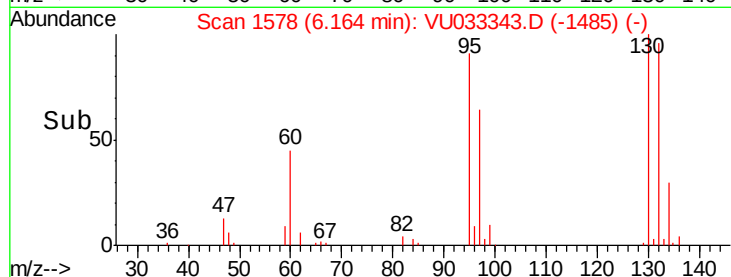
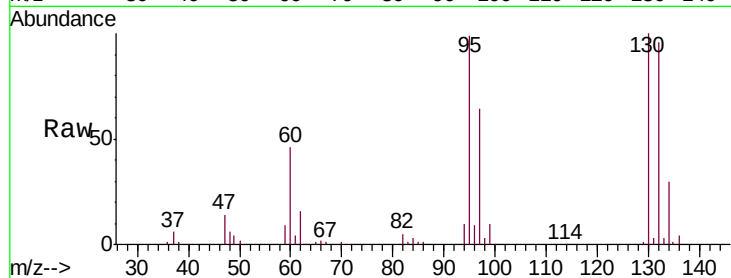
Ion Ratio Lower Upper

95 100

97 64.5 43.8 81.4

132 97.5 65.5 121.6

130 101.2 69.7 129.5

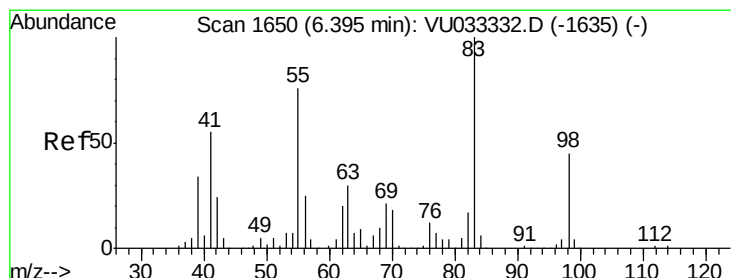
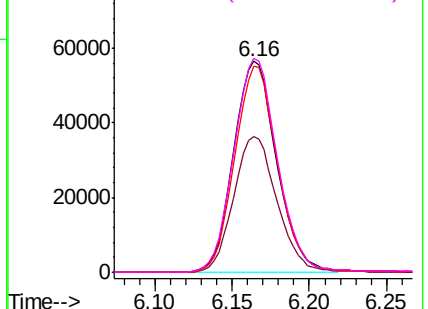


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 53.632 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

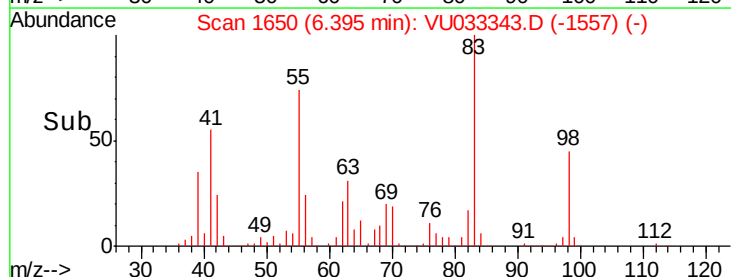
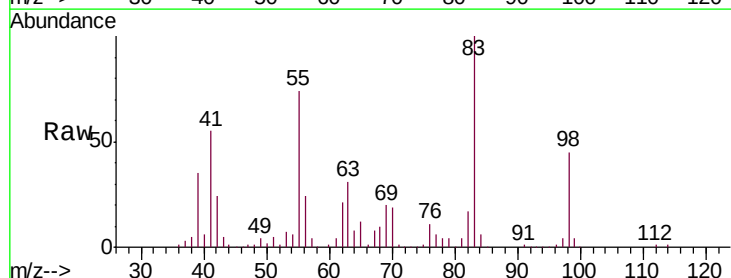
Tgt Ion: 83 Resp: 177876

Ion Ratio Lower Upper

83 100

55 75.5 60.5 90.7

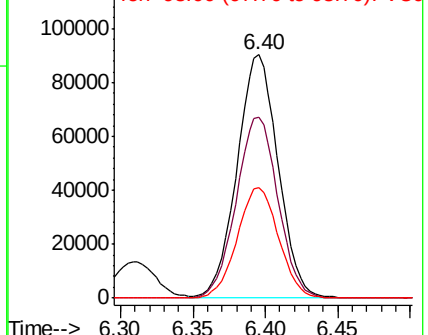
98 45.9 37.4 56.0

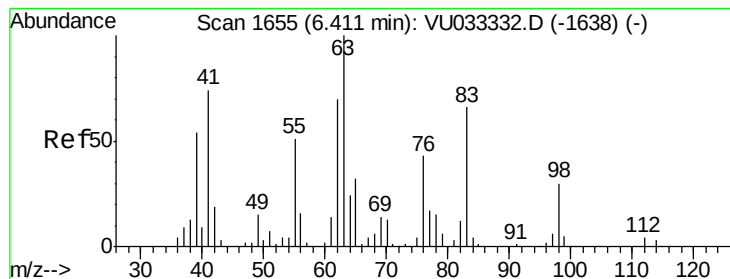


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 53.150 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

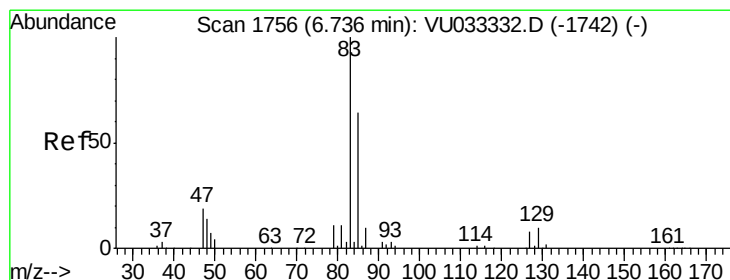
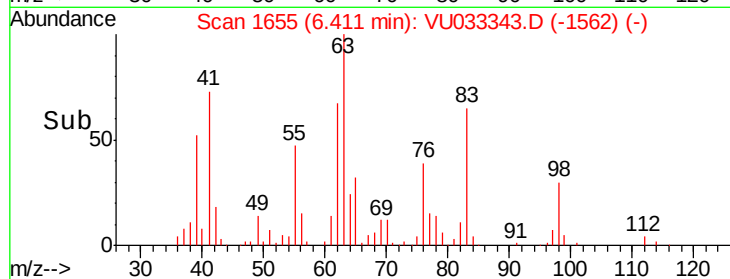
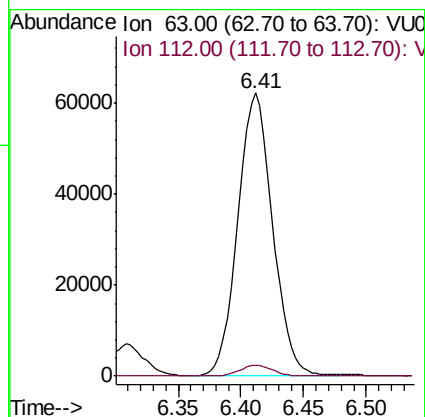
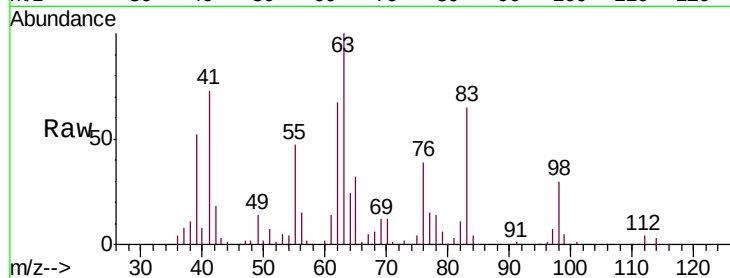
VSTD05054

Tgt Ion: 63 Resp: 119330

Ion Ratio Lower Upper

63 100

112 3.7 3.2 4.8



#38

Bromodichloromethane

Concen: 51.978 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

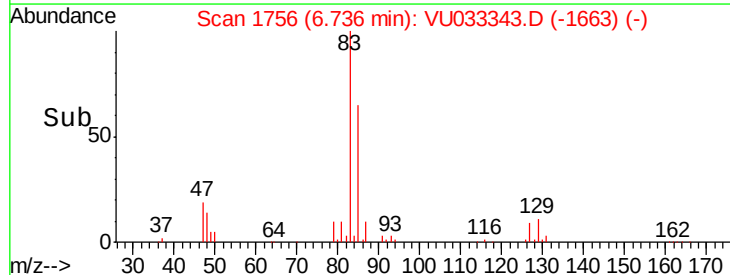
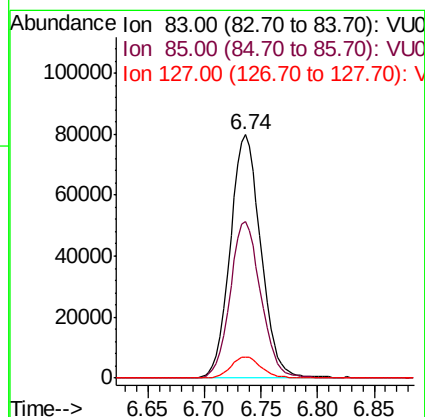
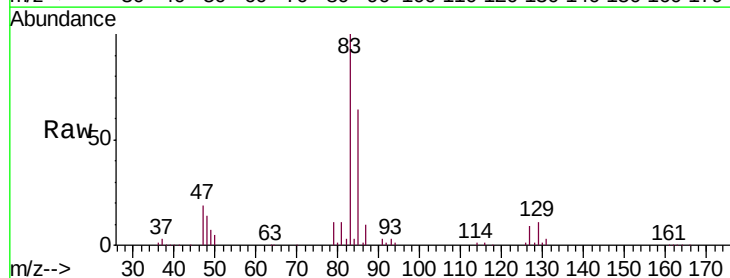
Tgt Ion: 83 Resp: 150532

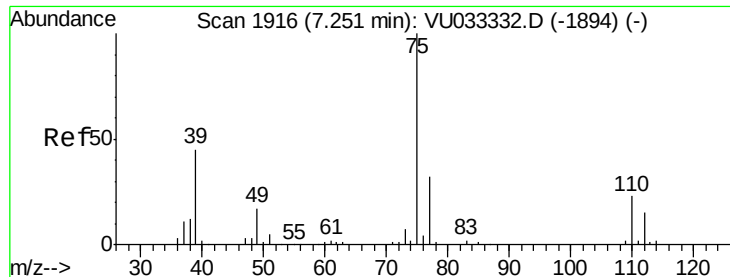
Ion Ratio Lower Upper

83 100

85 64.3 45.8 85.0

127 8.7 6.8 10.2

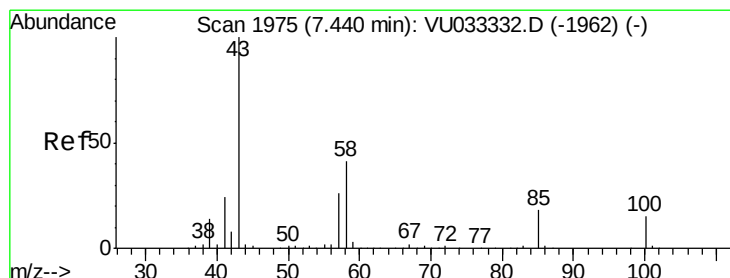
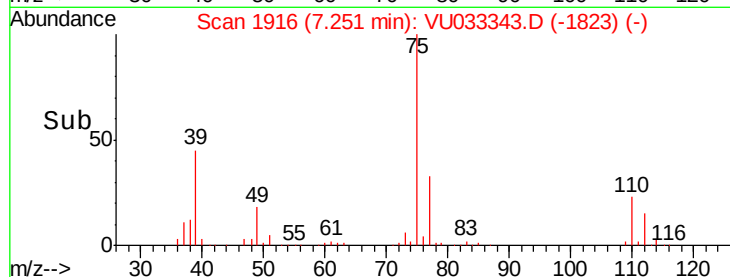
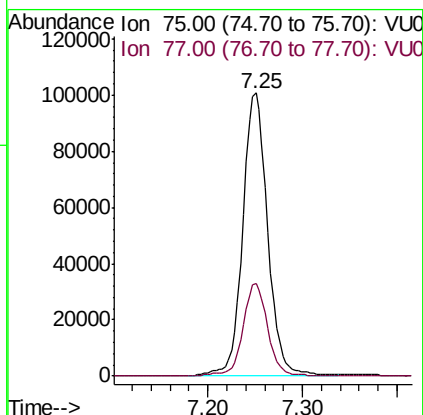
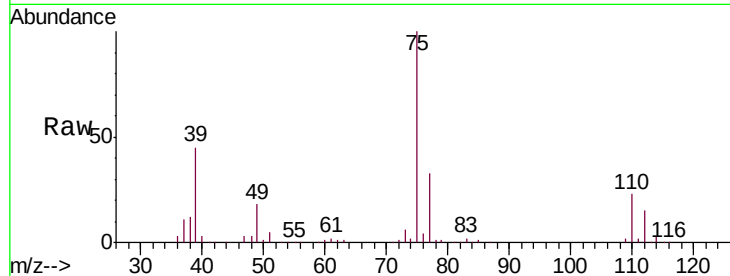




#39
 cis-1,3-Dichloropropene
 Concen: 53.840 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

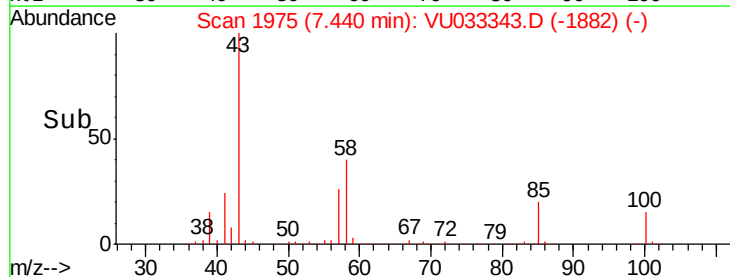
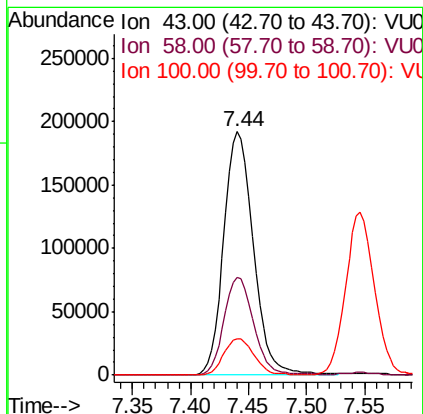
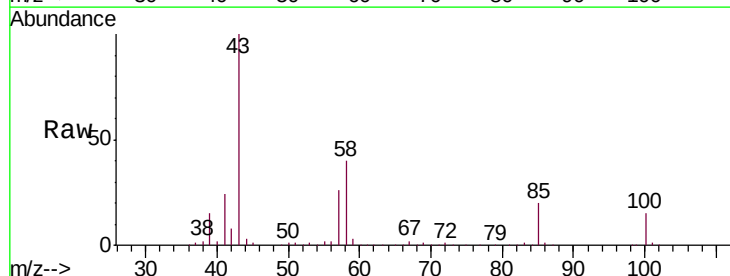
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

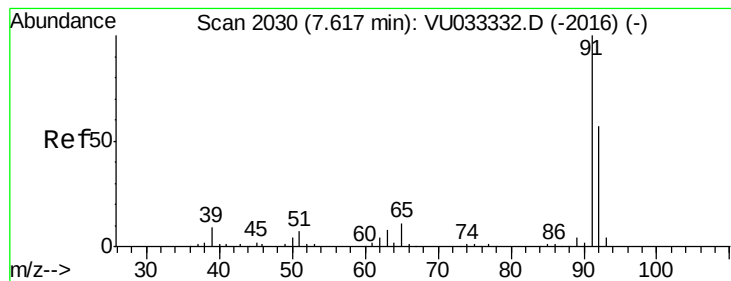
Tgt Ion: 75 Resp: 185335
 Ion Ratio Lower Upper
 75 100
 77 32.6 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 113.438 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Tgt Ion: 43 Resp: 341658
 Ion Ratio Lower Upper
 43 100
 58 39.8 33.3 49.9
 100 15.2 12.1 18.1





#42

Toluene

Concen: 53.697 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

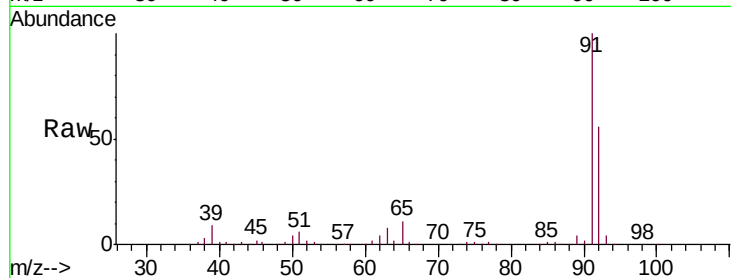
VSTD05054

Tgt Ion: 91 Resp: 479259

Ion Ratio Lower Upper

91 100

92 56.3 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU033332.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033332.D (-2016) (-)

7.62

300000

250000

200000

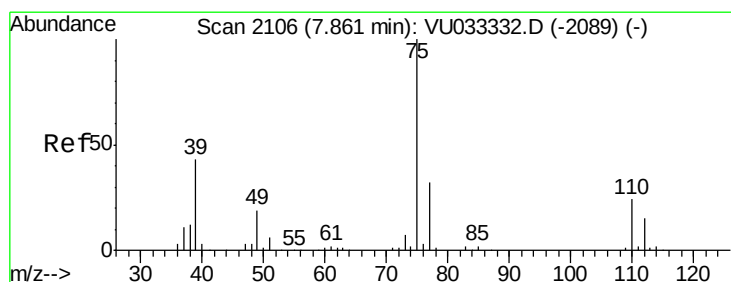
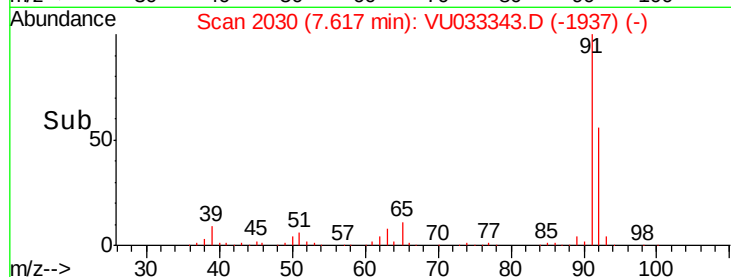
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 54.269 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033343.D

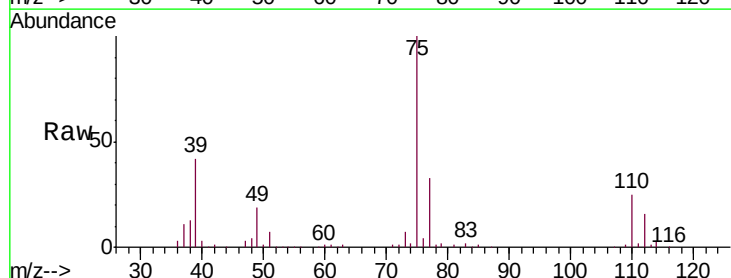
Acq: 19 Jul 2019 17:57

Tgt Ion: 75 Resp: 168476

Ion Ratio Lower Upper

75 100

77 32.7 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU033332.D (-2089) (-)

Ion 77.00 (76.70 to 77.70): VU033332.D (-2089) (-)

7.86

100000

80000

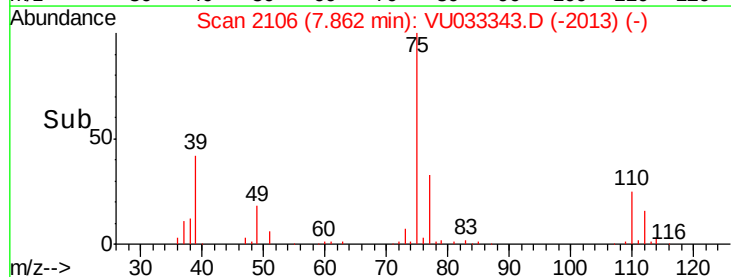
60000

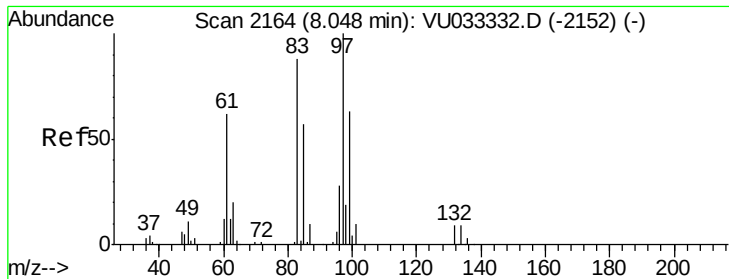
40000

20000

0

Time--> 7.80 7.90 8.00

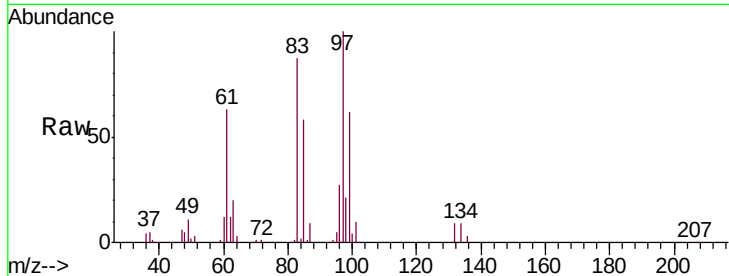




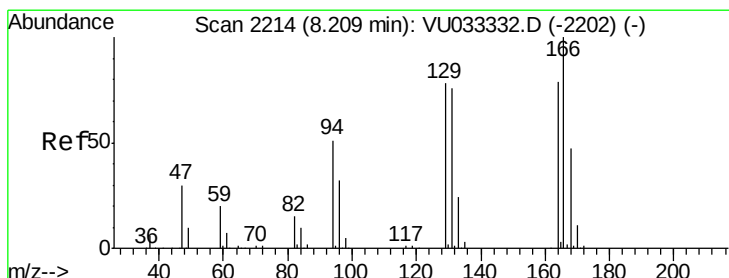
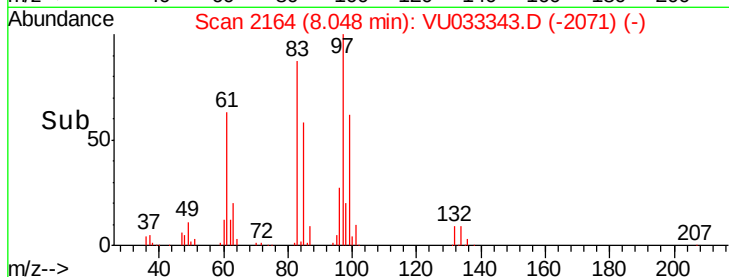
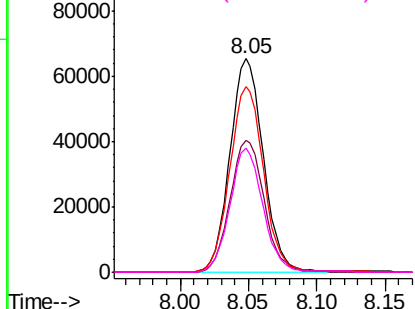
#45
 1,1,2-Trichloroethane
 Concen: 52.413 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Tgt Ion:	97	Resp:	111294
Ion	Ratio	Lower	Upper
97	100		
99	61.8	43.0	79.8
83	87.1	61.5	114.3
85	57.8	38.8	72.0

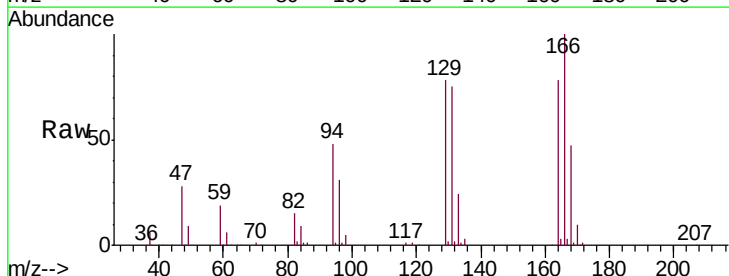


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

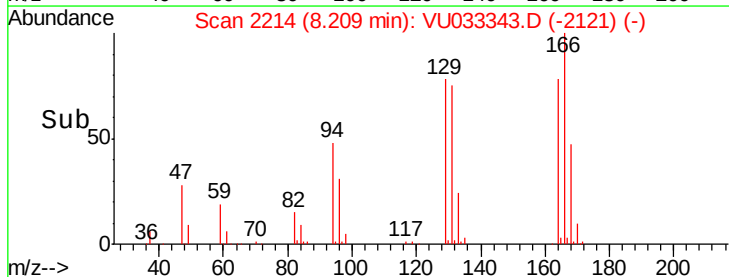
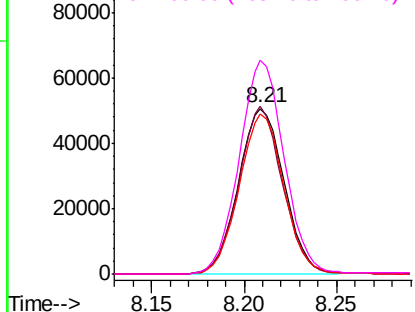


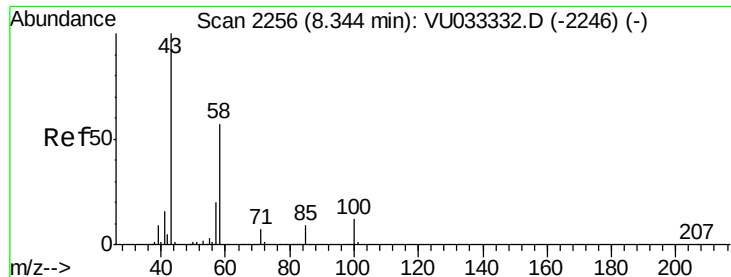
#46
 Tetrachloroethene
 Concen: 51.460 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Tgt Ion:	164	Resp:	86250
Ion	Ratio	Lower	Upper
164	100		
129	100.9	69.6	129.2
131	96.4	65.7	122.1
166	129.0	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

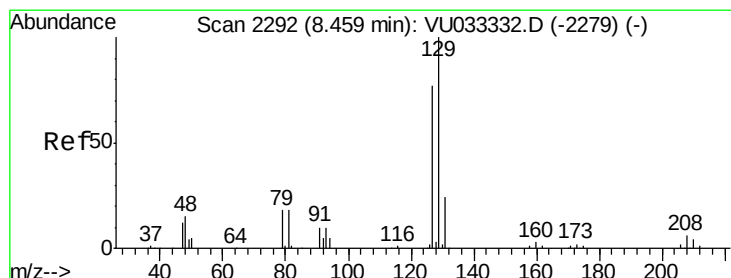
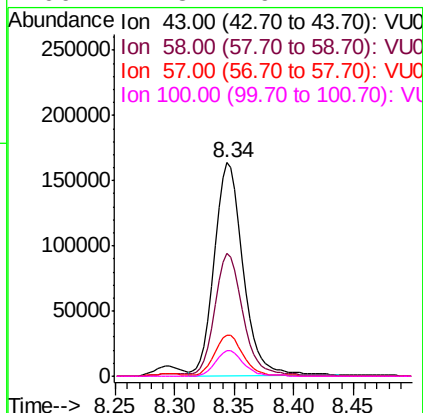
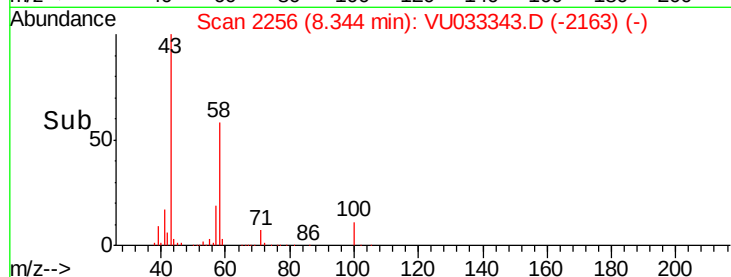
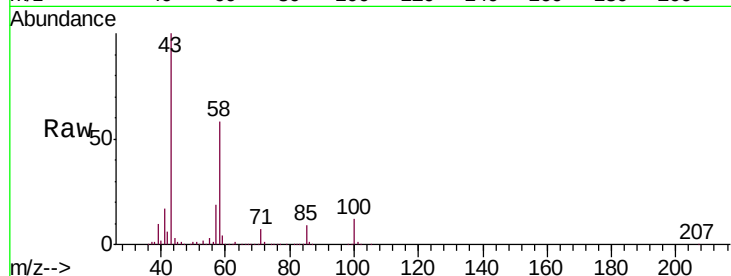




#48
2-Hexanone
Concen: 111.311 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

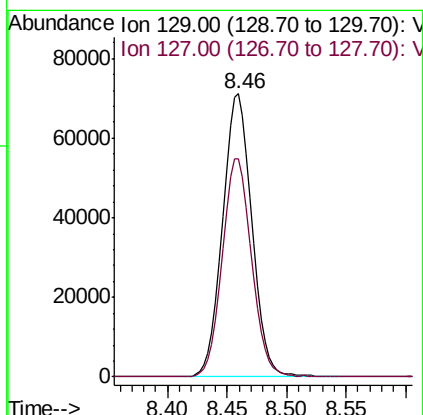
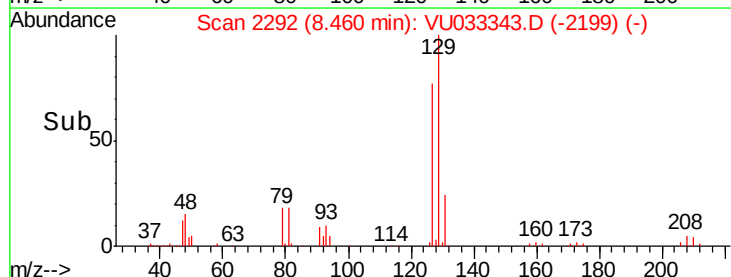
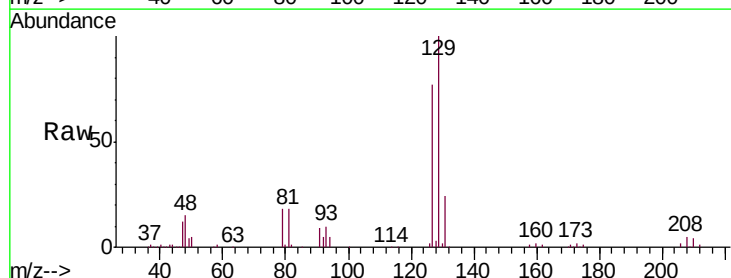
Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

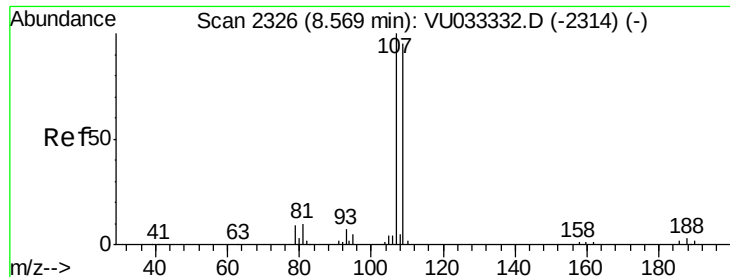
Tgt Ion:	43	Resp:	273121
Ion	Ratio	Lower	Upper
43	100		
58	57.1	46.1	69.1
57	19.4	15.8	23.8
100	11.8	9.4	14.2



#49
Dibromochloromethane
Concen: 51.390 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

Tgt Ion:	129	Resp:	121724
Ion	Ratio	Lower	Upper
129	100		
127	76.8	54.3	100.9

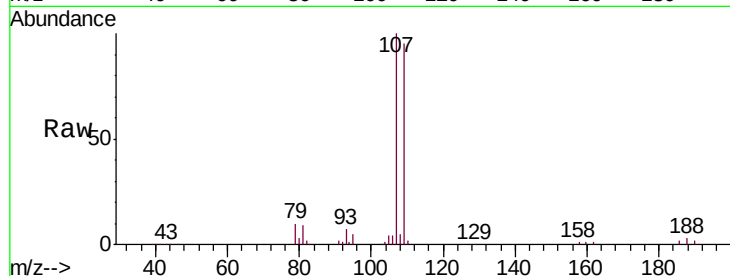




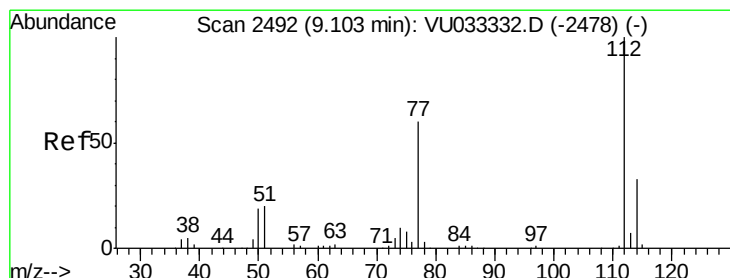
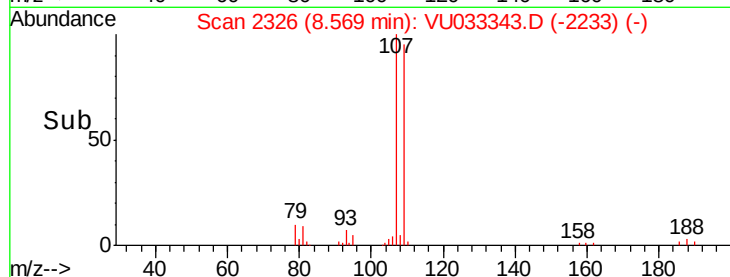
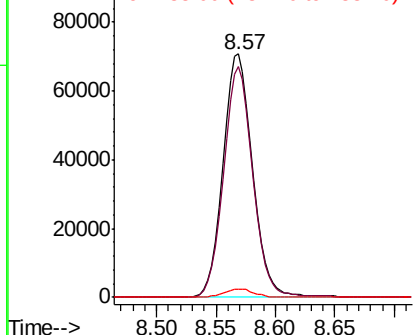
#50
1,2-Dibromoethane
Concen: 52.593 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

Instrument :
MSVOA_U
ClientSampleId :
VSTD05054

Tgt Ion:107 Resp: 121762
Ion Ratio Lower Upper
107 100
109 94.7 64.2 119.2
188 3.3 2.6 4.0

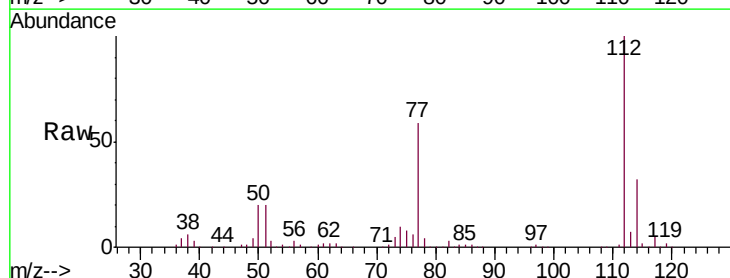


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

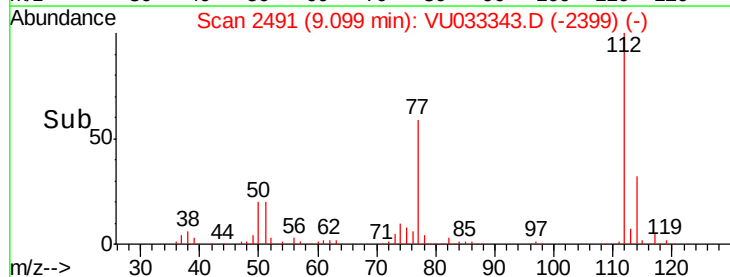
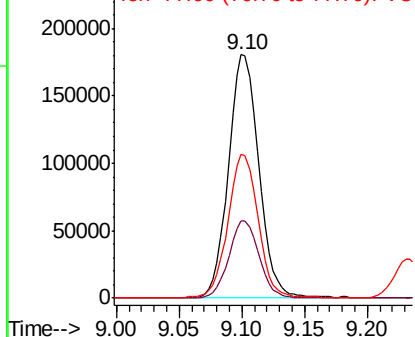


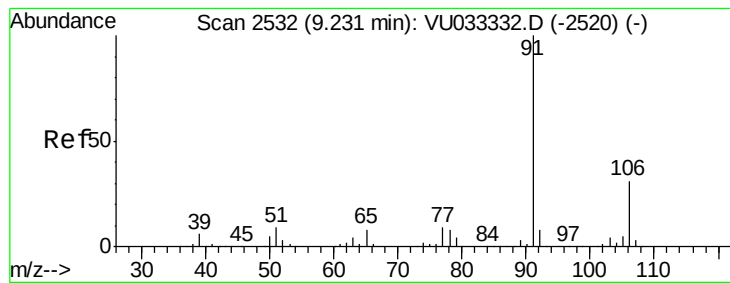
#51
Chlorobenzene
Concen: 52.204 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033343.D
Acq: 19 Jul 2019 17:57

Tgt Ion:112 Resp: 304122
Ion Ratio Lower Upper
112 100
114 31.8 22.3 41.3
77 59.0 47.2 70.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 54.294 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

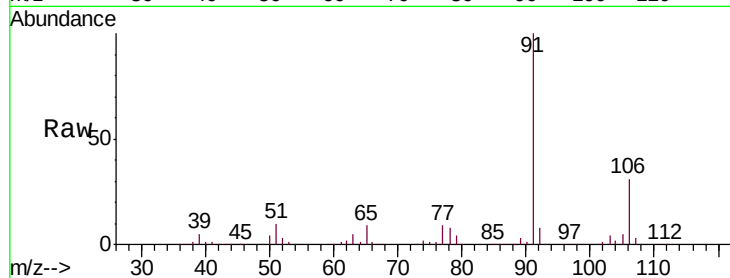
VSTD05054

Tgt Ion: 91 Resp: 518543

Ion Ratio Lower Upper

91 100

106 31.3 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VU033332.D (-2520) (-)

Ion 106.00 (105.70 to 106.70): VU033332.D (-2520) (-)

9.23

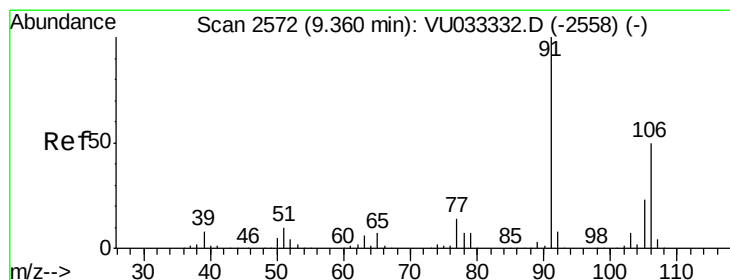
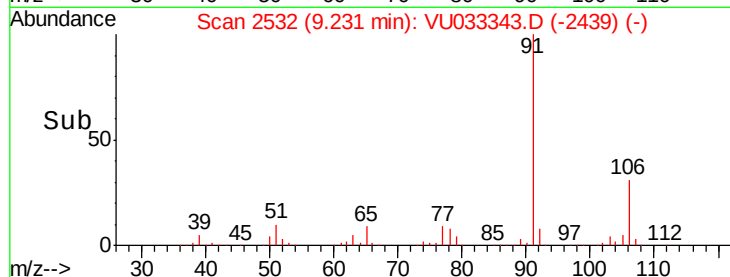
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 54.125 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033343.D

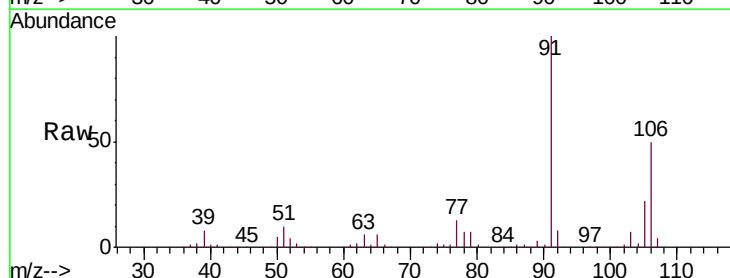
Acq: 19 Jul 2019 17:57

Tgt Ion: 106 Resp: 195797

Ion Ratio Lower Upper

106 100

91 201.4 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VU033332.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033332.D (-2558) (-)

9.36

250000

200000

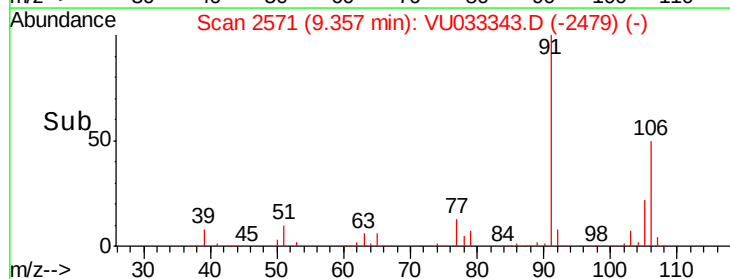
150000

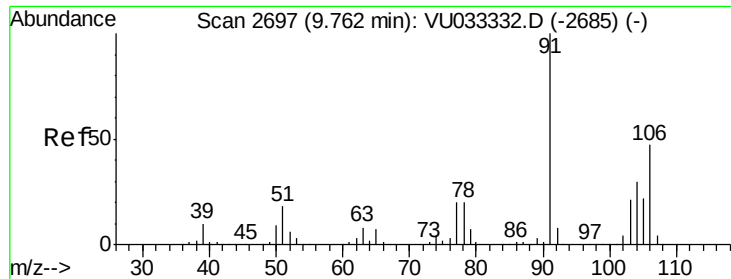
100000

50000

0

Time-->





#54

o-xylene

Concen: 54.548 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

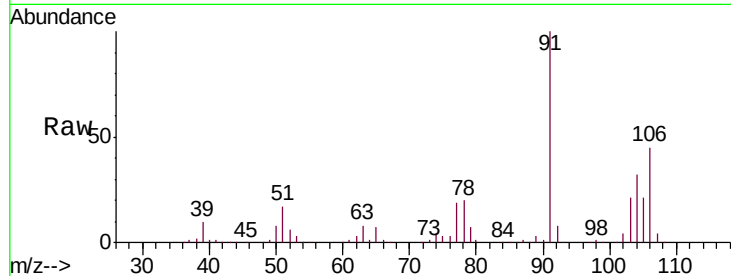
VSTD05054

Tgt Ion:106 Resp: 195936

Ion Ratio Lower Upper

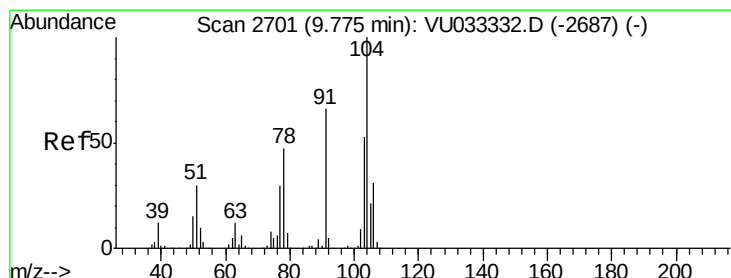
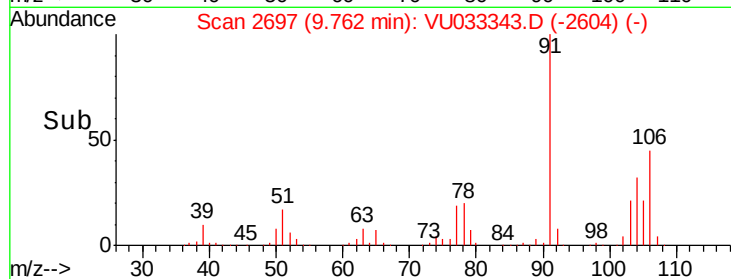
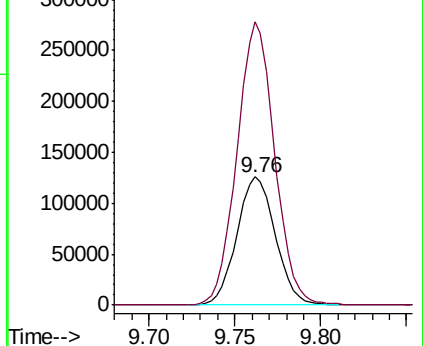
106 100

91 220.6 150.5 279.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.384 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033343.D

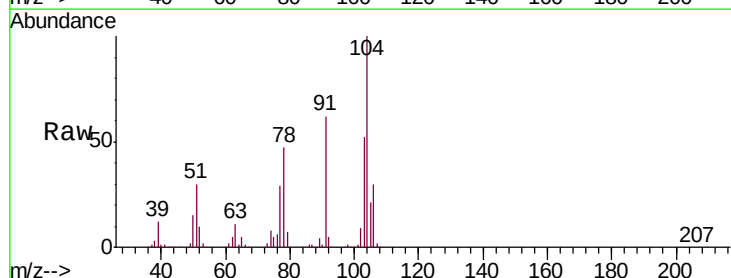
Acq: 19 Jul 2019 17:57

Tgt Ion:104 Resp: 331193

Ion Ratio Lower Upper

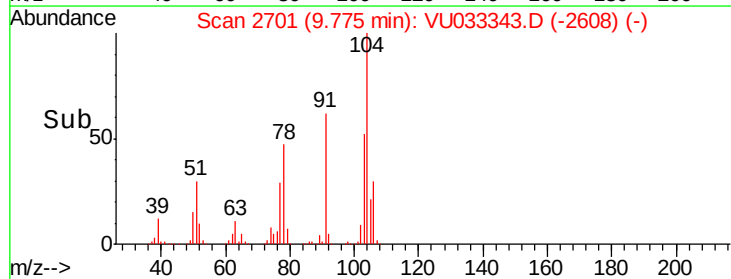
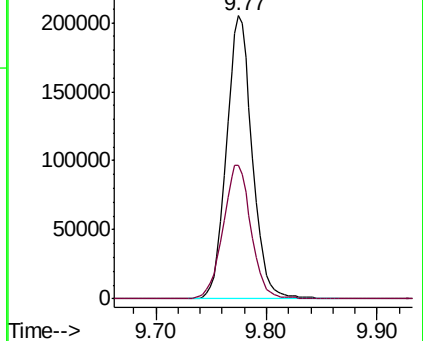
104 100

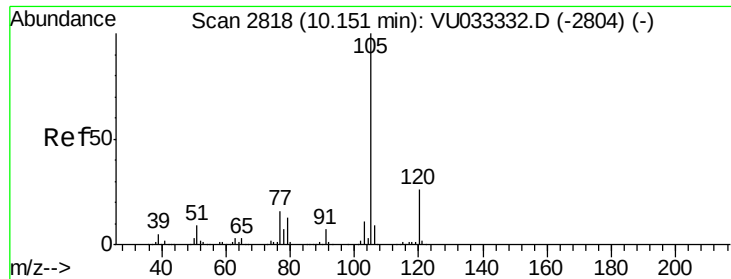
78 47.4 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 54.956 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

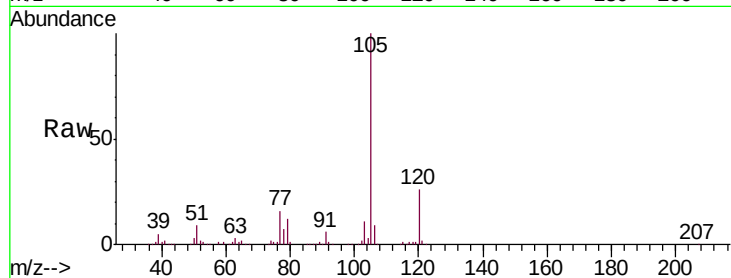
Tgt Ion: 105 Resp: 507963

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

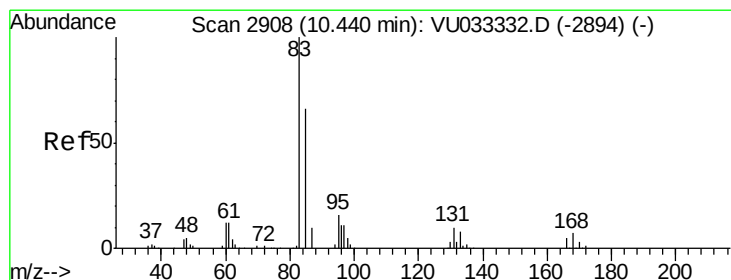
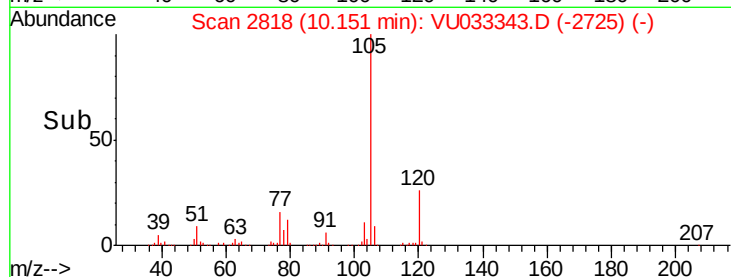
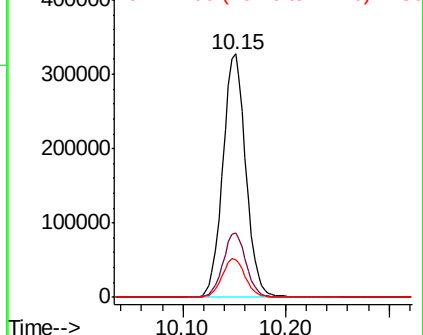
77 16.1 12.9 19.3



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: 51.875 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

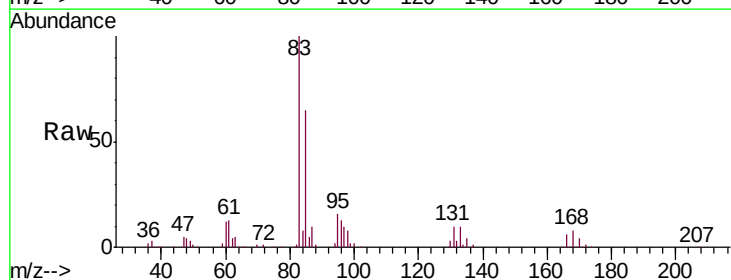
Tgt Ion: 83 Resp: 193483

Ion Ratio Lower Upper

83 100

85 65.3 44.9 83.3

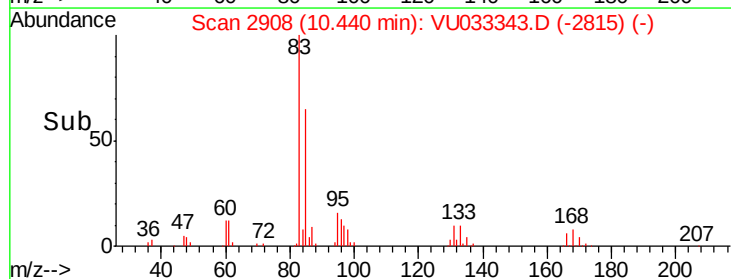
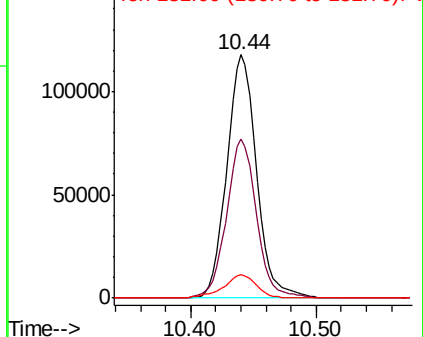
131 9.9 7.6 11.4

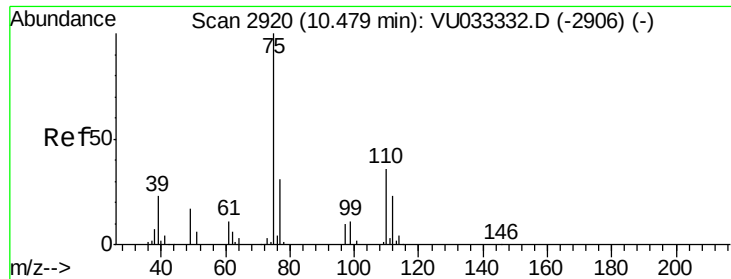


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

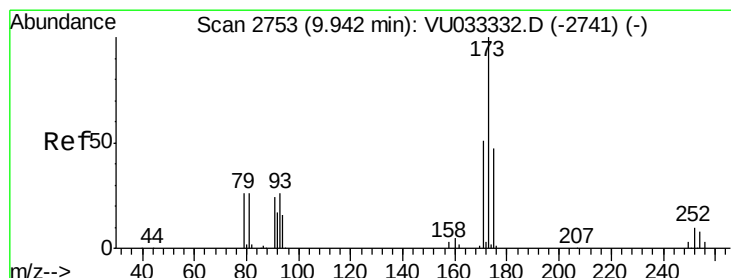
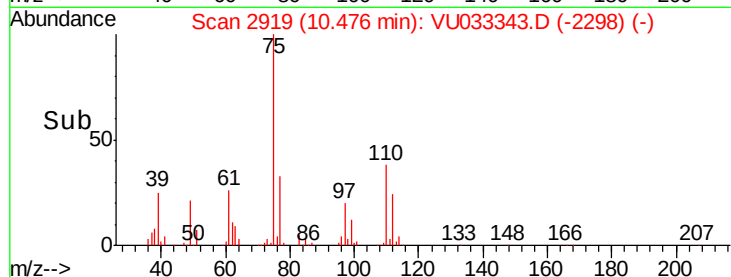
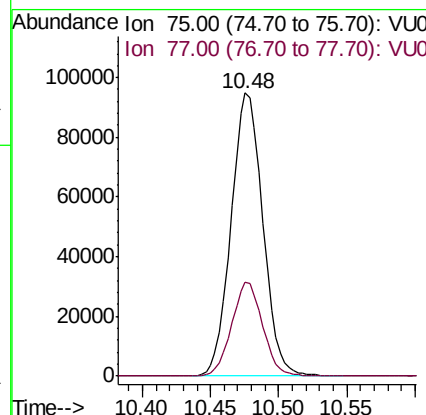
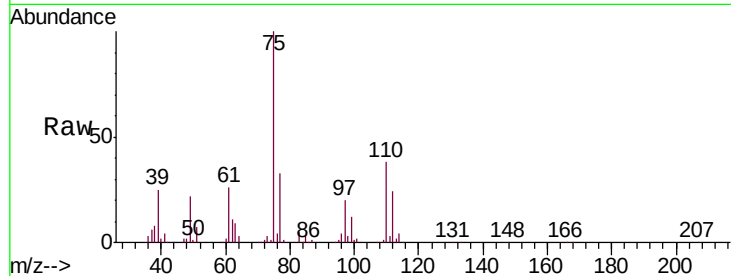




#59
 1,2,3-Trichloropropane
 Concen: 52.490 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

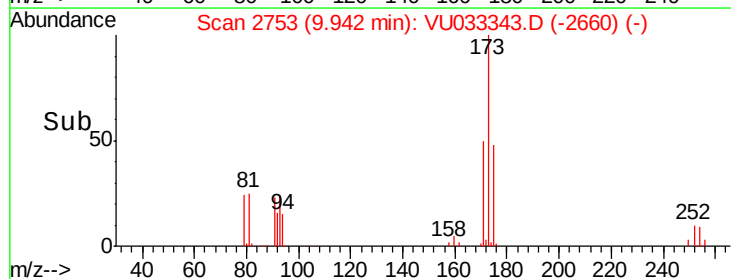
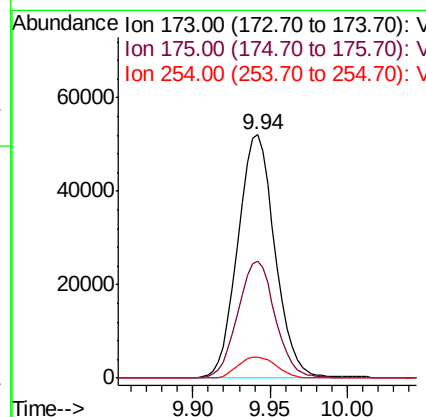
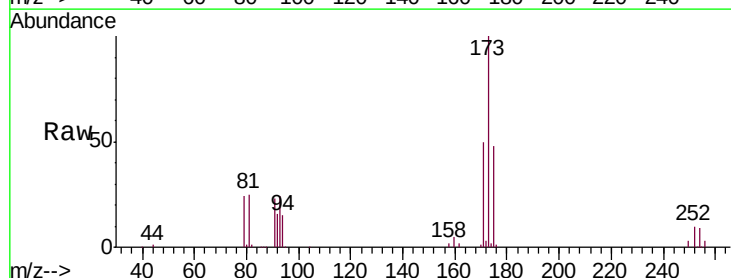
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

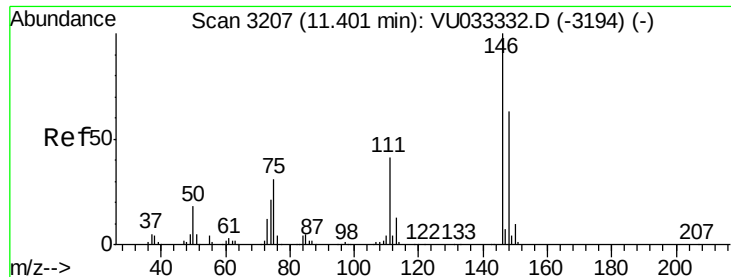
Tgt Ion: 75 Resp: 153419
 Ion Ratio Lower Upper
 75 100
 77 32.4 26.0 39.0



#61
 Bromoform
 Concen: 49.381 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Tgt Ion: 173 Resp: 86939
 Ion Ratio Lower Upper
 173 100
 175 48.6 40.0 60.0
 254 9.0 7.3 10.9

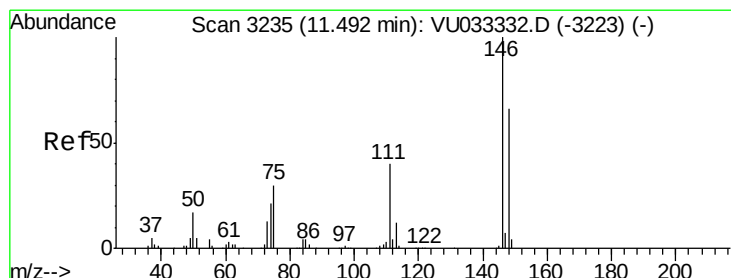
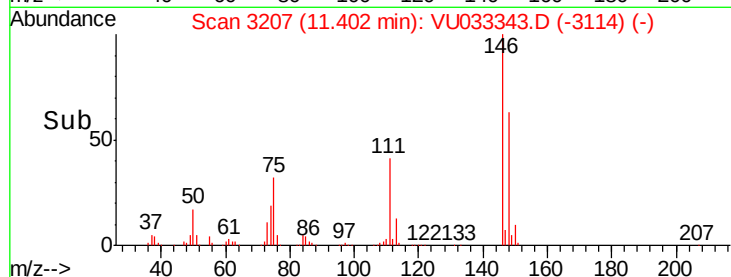
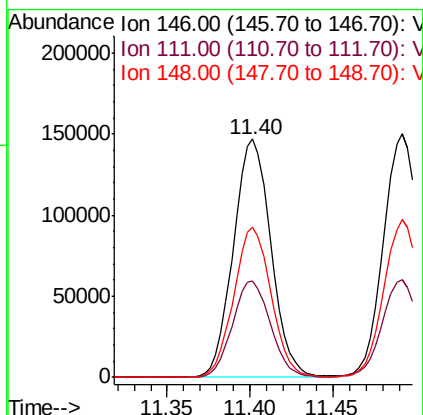
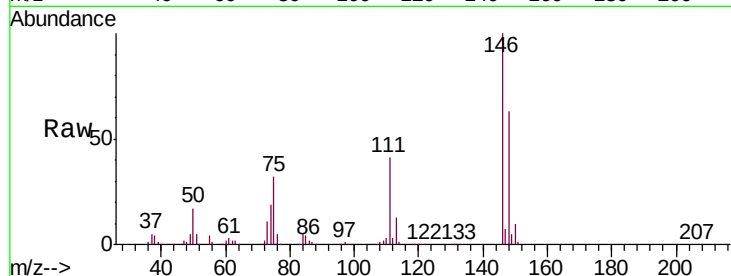




#62
 1,3-Dichlorobenzene
 Concen: 52.223 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

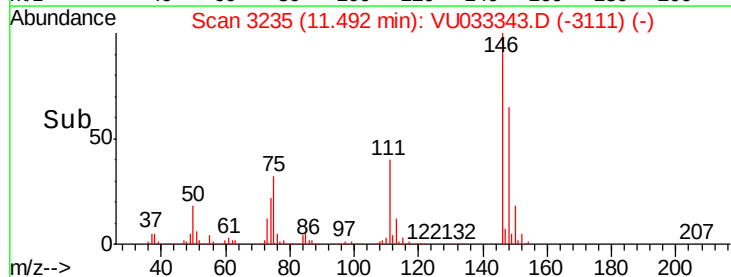
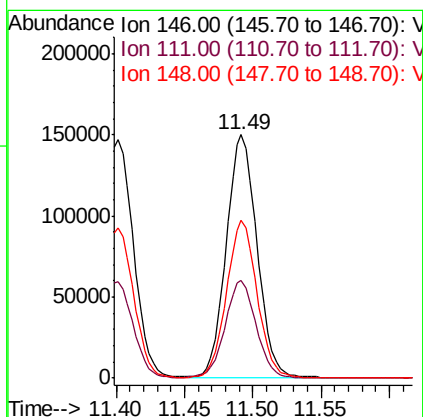
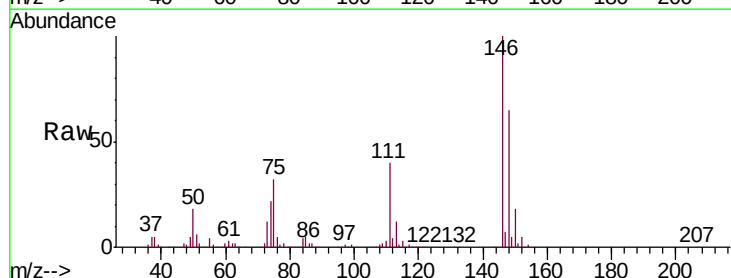
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

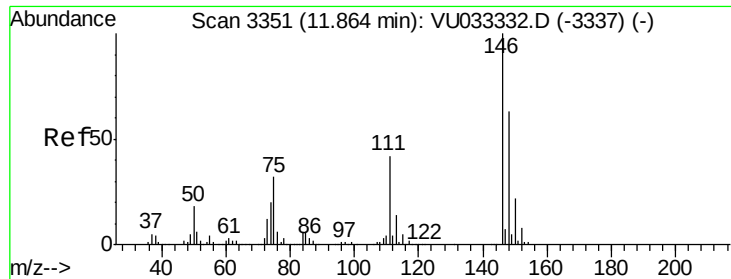
Tgt Ion:146 Resp: 231743
 Ion Ratio Lower Upper
 146 100
 111 40.6 28.0 52.0
 148 63.2 44.7 83.1



#63
 1,4-Dichlorobenzene
 Concen: 50.417 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Tgt Ion:146 Resp: 233924
 Ion Ratio Lower Upper
 146 100
 111 40.2 27.8 51.6
 148 64.6 44.6 82.8

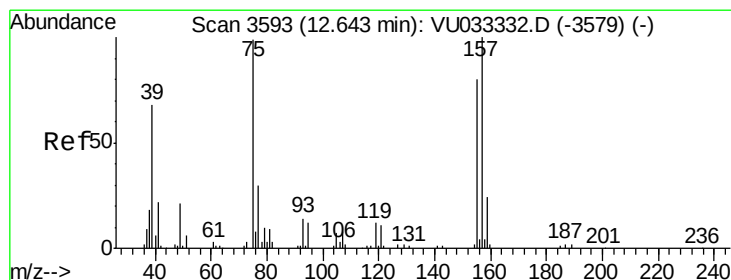
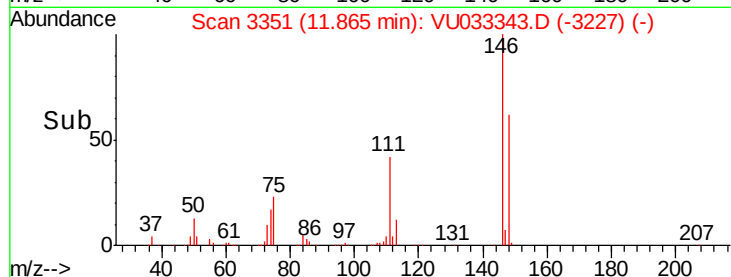
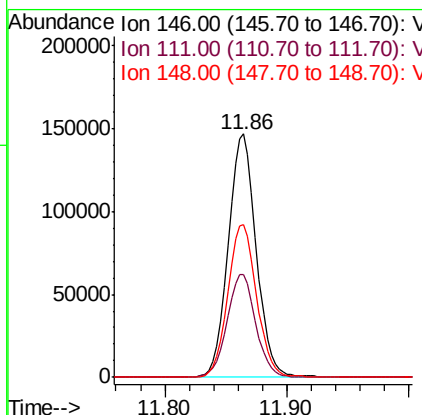
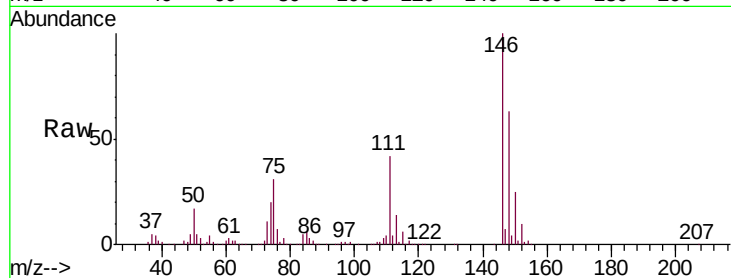




#65
 1,2-Dichlorobenzene
 Concen: 51.680 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

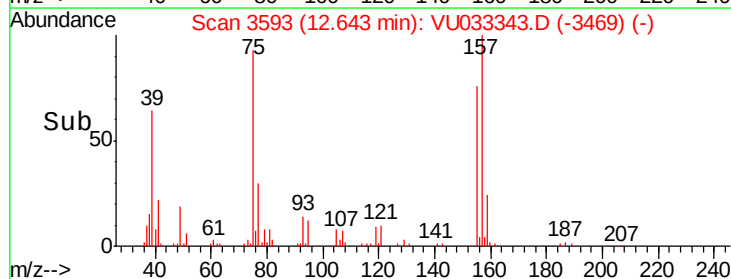
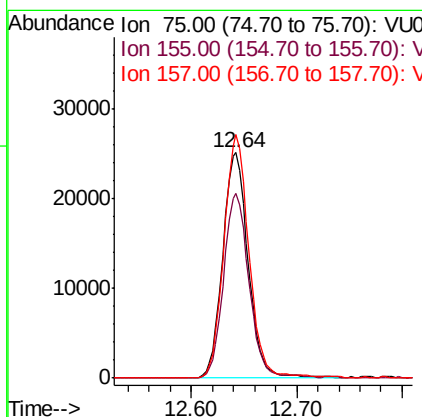
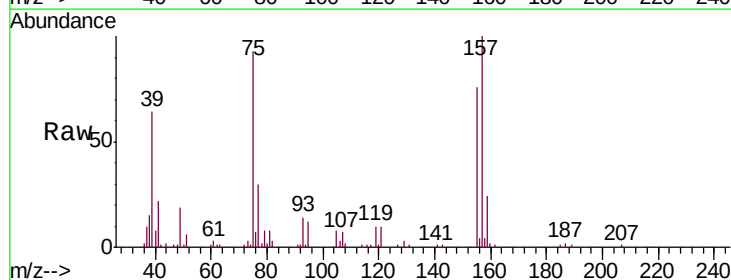
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

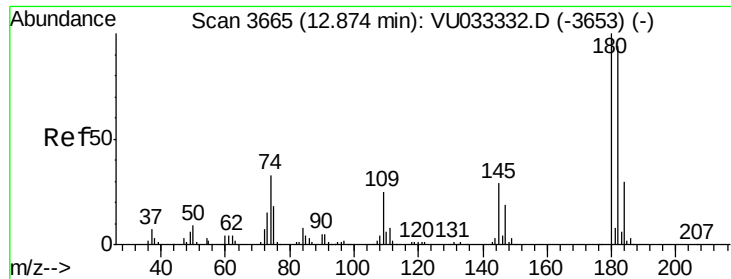
Tgt Ion: 146 Resp: 235195
 Ion Ratio Lower Upper
 146 100
 111 42.4 34.3 51.5
 148 62.6 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.434 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Tgt Ion: 75 Resp: 42070
 Ion Ratio Lower Upper
 75 100
 155 81.9 63.5 95.3
 157 107.9 84.6 127.0

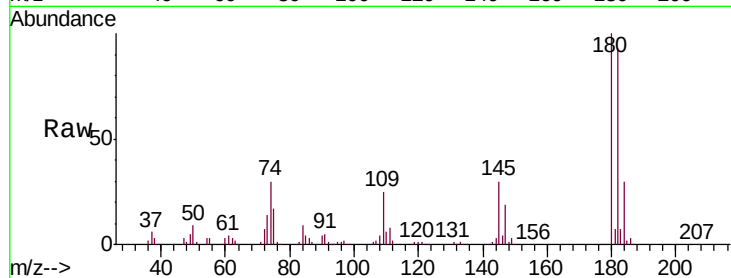




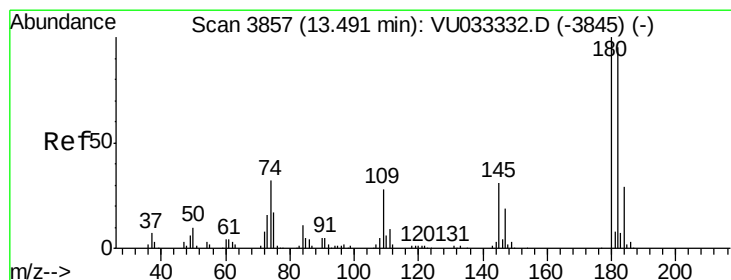
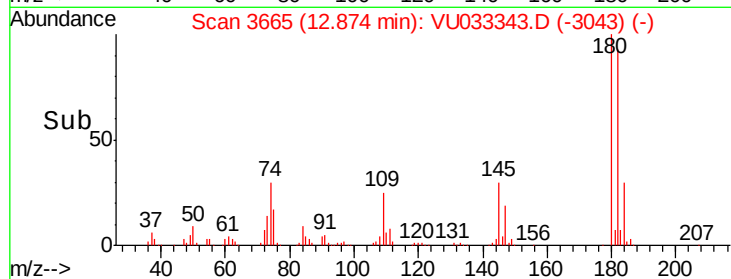
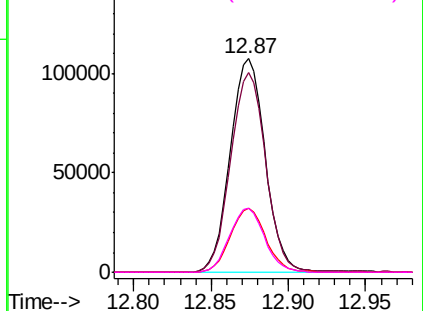
#67
 1,3,5-Trichlorobenzene
 Concen: 52.649 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05054

Tgt Ion:180 Resp: 168844
 Ion Ratio Lower Upper
 180 100
 182 94.1 75.5 113.3
 184 30.2 24.2 36.2
 145 29.7 24.1 36.1

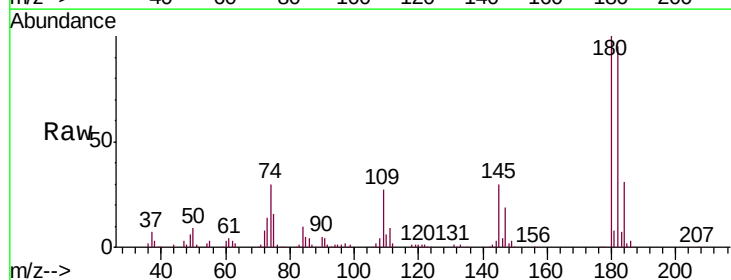


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

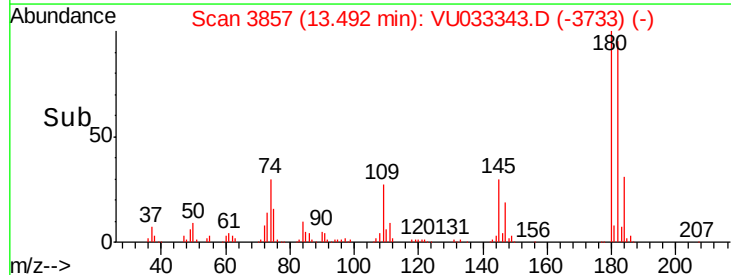
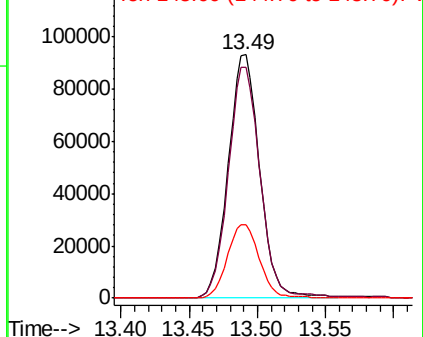


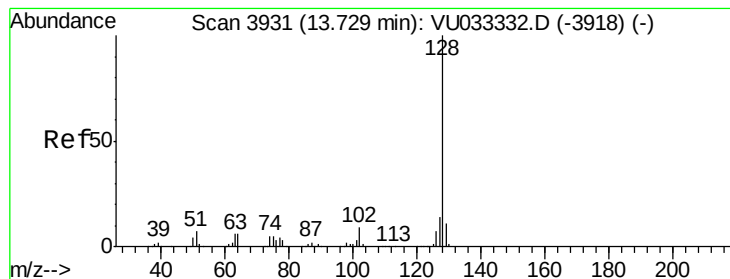
#68
 1,2,4-trichlorobenzene
 Concen: 53.191 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033343.D
 Acq: 19 Jul 2019 17:57

Tgt Ion:180 Resp: 148998
 Ion Ratio Lower Upper
 180 100
 182 94.9 76.5 114.7
 145 31.1 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: 56.152 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05054

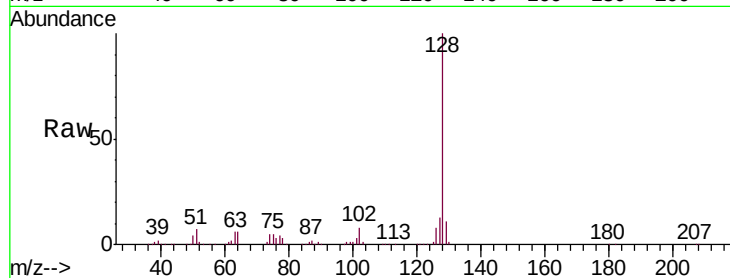
Tgt Ion:128 Resp: 504330

Ion Ratio Lower Upper

128 100

127 13.1 10.8 16.2

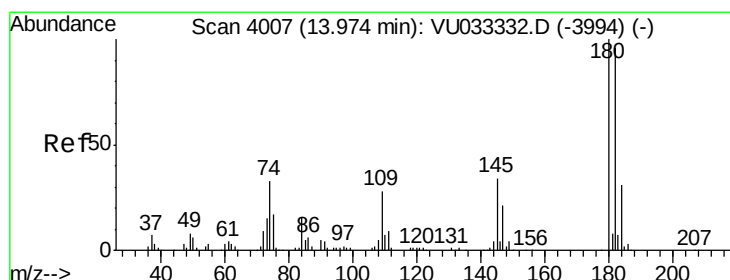
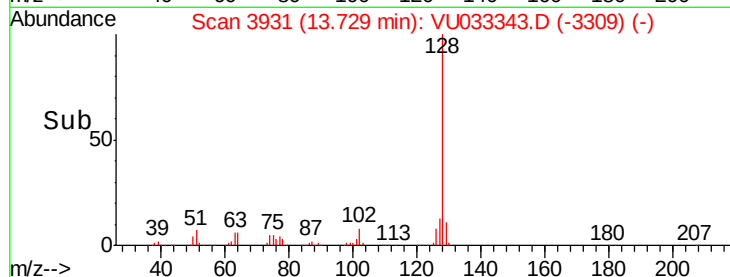
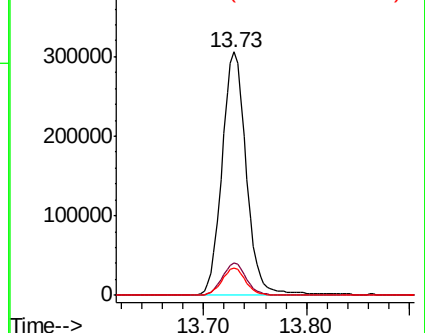
129 10.9 8.7 13.1



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: 50.545 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033343.D

Acq: 19 Jul 2019 17:57

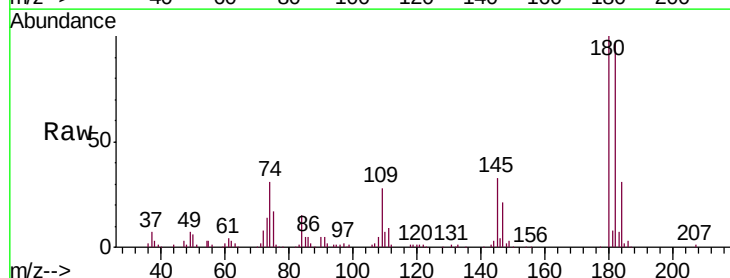
Tgt Ion:180 Resp: 153714

Ion Ratio Lower Upper

180 100

182 96.8 77.4 116.2

145 32.8 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

