

Data File : VU032048.D
Acq On : 16 May 2019 14:43
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00501

Quant Time: May 17 07:07:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR051619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 17 02:30:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	423878	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	426160	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	193615	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	170752	4.78	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.60%
7) Chloroethane-d5	1.68	69	144248	4.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.60%
11) 1,1-Dichloroethene-d2	2.27	63	275785	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.00%
20) 2-Butanone-d5	4.20	46	361612	51.59	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.18%
24) Chloroform-d	4.64	84	309489	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.31	65	155318	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.33	84	640250	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.40%
36) 1,2-Dichloropropane-d6	6.33	67	187646	4.94	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.80%
41) Toluene-d8	7.56	98	582857	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
43) trans-1,3-Dichloropropene-	7.85	79	70533	5.16	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.20%
46) 2-Hexanone-d5	8.31	63	335995	54.39	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.78%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	156111	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	205639	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	110445	5.206	ug/L 97
3) Chloromethane	1.32	50	98011	4.814	ug/L 99
5) Vinyl chloride	1.40	62	108410	5.068	ug/L 98
6) Bromomethane	1.63	94	64221	5.209	ug/L 93
8) Chloroethane	1.69	64	67358	5.078	ug/L 100
9) Trichlorofluoromethane	1.88	101	134378	5.120	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	87571	5.036	ug/L 98
12) 1,1-Dichloroethene	2.28	96	87034	5.113	ug/L 85
13) Acetone	2.34	43	110896	48.189	ug/L 98
14) Carbon disulfide	2.47	76	273643	5.040	ug/L 97
15) Methyl Acetate	2.62	43	29323	4.444	ug/L 98
16) Methylene chloride	2.69	84	94090	4.631	ug/L 99
17) Methyl tert-butyl Ether	3.00	73	198657	4.964	ug/L 98
18) trans-1,2-Dichloroethene	2.97	96	92692	5.087	ug/L 100
19) 1,1-Dichloroethane	3.44	63	148882	5.151	ug/L 98
21) 2-Butanone	4.29	43	173328	52.473	ug/L 99
22) cis-1,2-Dichloroethene	4.22	96	90077	5.025	ug/L 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	41582	5.406	ug/L	93
25) Chloroform	4.67	83	155500	5.031	ug/L	99
27) 1,2-Dichloroethane	5.40	62	91062	5.102	ug/L	98
29) 1,1,1-Trichloroethane	4.90	97	127687	5.136	ug/L	96
30) Cyclohexane	4.99	56	117302	5.131	ug/L	98
31) Carbon tetrachloride	5.13	117	108293	5.123	ug/L	99
33) Benzene	5.38	78	343347	5.247	ug/L	100
34) Trichloroethene	6.18	95	87678	4.940	ug/L	97
35) Methylcyclohexane	6.41	83	129733	5.076	ug/L	99
37) 1,2-Dichloropropane	6.43	63	80083	5.005	ug/L	99
38) Bromodichloromethane	6.75	83	103021	5.034	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	116438	5.263	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	399892	53.916	ug/L	100
42) Toluene	7.63	91	363037	5.297	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	91094	5.296	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	62237	5.266	ug/L	96
47) Tetrachloroethene	8.22	164	70697	5.328	ug/L	90
48) 2-Hexanone	8.36	43	316978	55.097	ug/L	99
49) Dibromochloromethane	8.47	129	69724	5.119	ug/L	98
50) 1,2-Dibromoethane	8.58	107	56707	5.007	ug/L #	98
51) Chlorobenzene	9.12	112	228076	5.269	ug/L	94
52) Ethylbenzene	9.25	91	360420	5.242	ug/L	99
53) m,p-Xylene	9.37	106	141320	5.411	ug/L	91
54) o-Xylene	9.77	106	137780	5.473	ug/L	98
55) Styrene	9.79	104	225264	5.277	ug/L	96
56) Isopropylbenzene	10.16	105	343825	5.344	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	73894	5.011	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	52670	5.183	ug/L	100
61) Bromoform	9.95	173	36917	4.968	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	163778	5.309	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	162745	5.069	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	165078	5.274	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	10069	4.930	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	125798	5.478	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	90628	5.709	ug/L	99
69) Naphthalene	13.74	128	143899	5.828	ug/L	98
70) 1,2,3-Trichlorobenzene	13.98	180	92955	5.769	ug/L	98

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

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VSTD00501

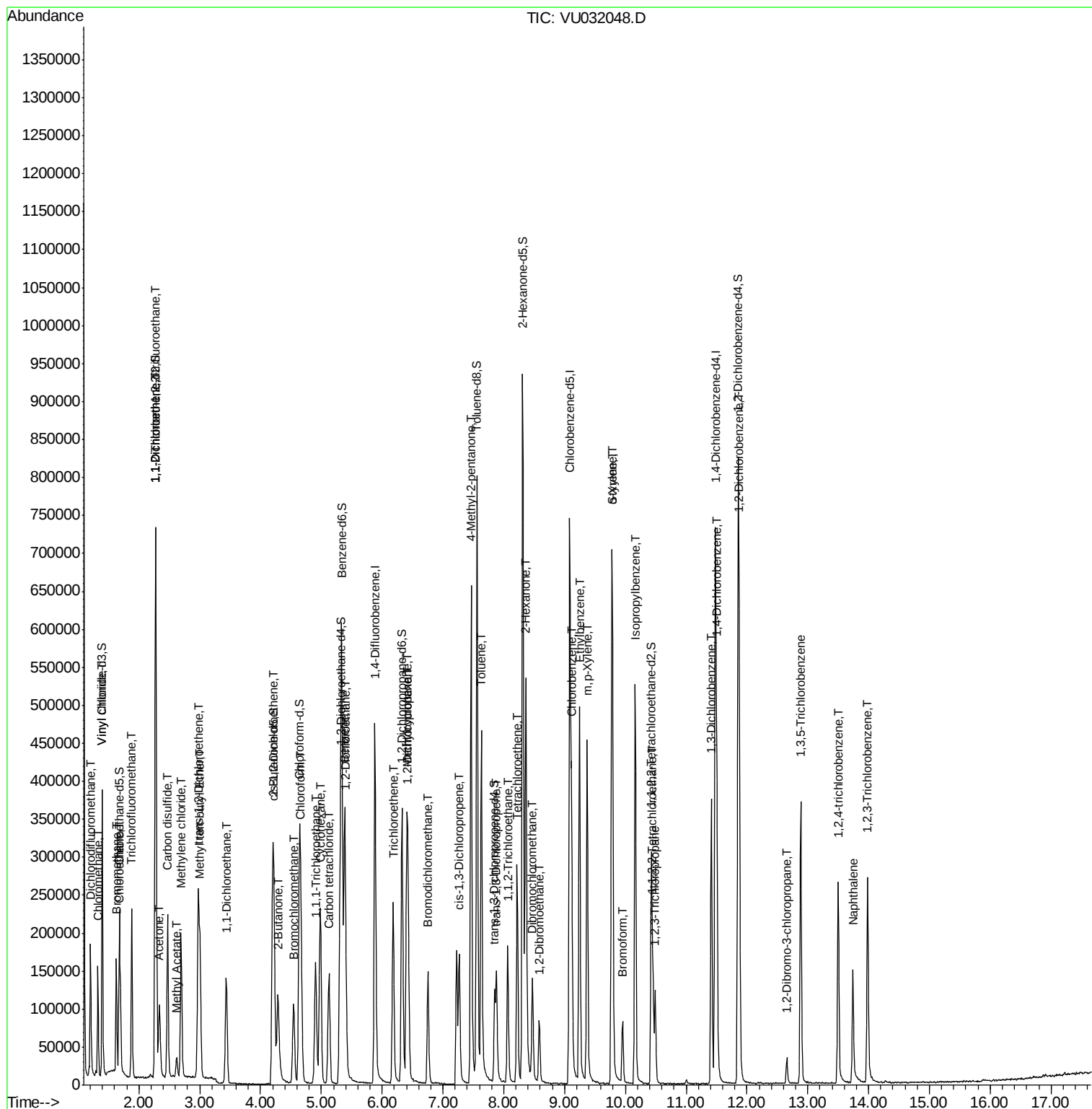
Quant Time: May 17 07:07:04 2019

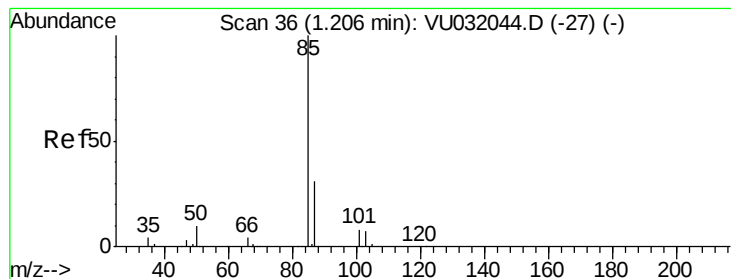
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR051619WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri May 17 02:30:26 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.206 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

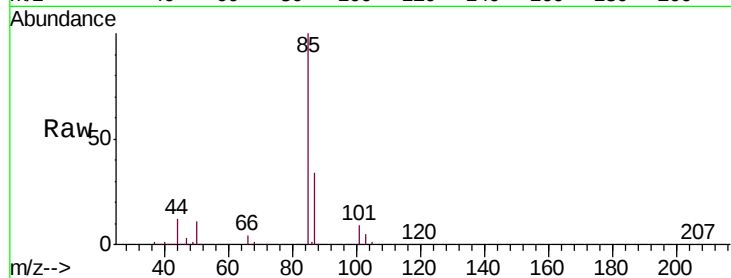
VSTD00501

Tgt Ion: 85 Resp: 110445

Ion Ratio Lower Upper

85 100

87 32.8 24.8 37.2



Abundance Ion 85.00 (84.70 to 85.70): VU032044.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU032044.D (-27) (-)

1.21

100000

80000

60000

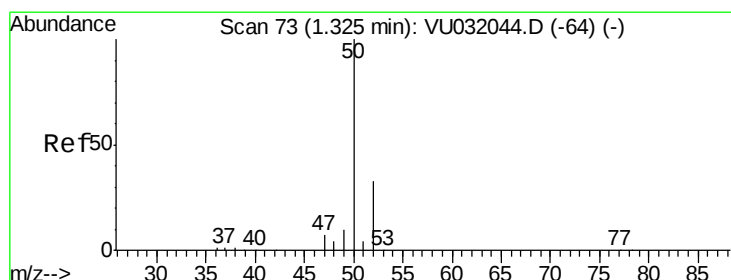
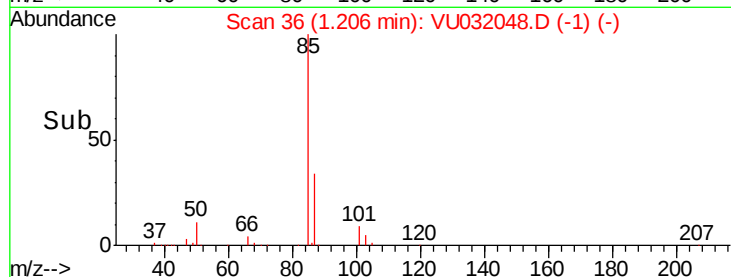
40000

20000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 4.814 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032048.D

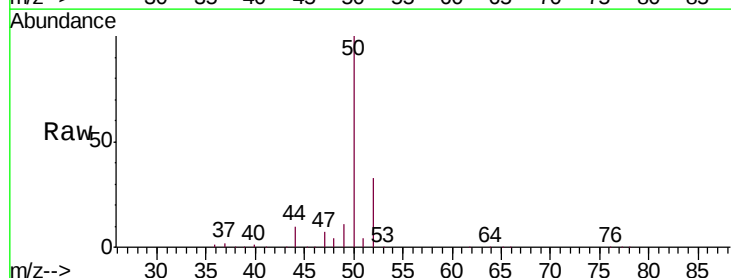
Acq: 16 May 2019 14:43

Tgt Ion: 50 Resp: 98011

Ion Ratio Lower Upper

50 100

52 33.5 23.2 43.0



Abundance Ion 50.05 (49.75 to 50.75): VU032044.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU032044.D (-64) (-)

1.32

100000

80000

60000

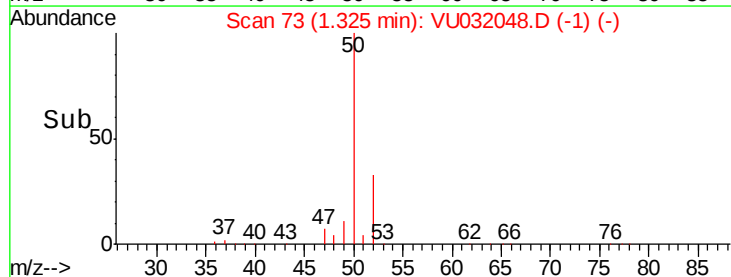
40000

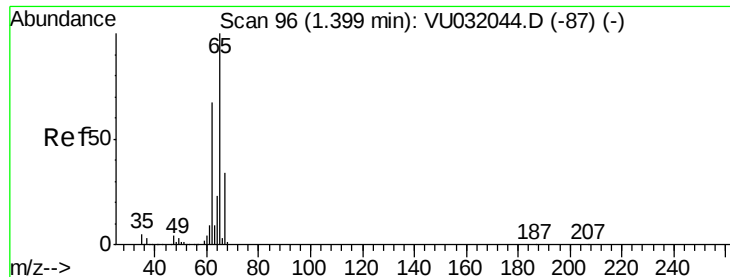
20000

0

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 5.068 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

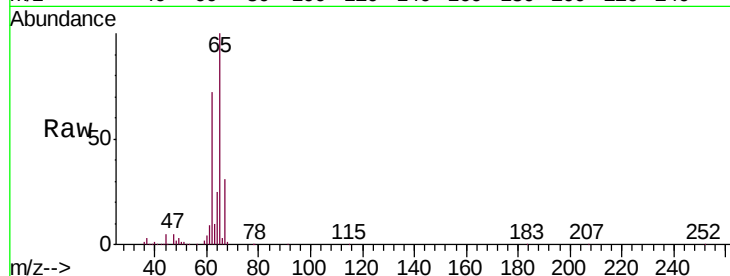
VSTD00501

Tgt Ion: 62 Resp: 108410

Ion Ratio Lower Upper

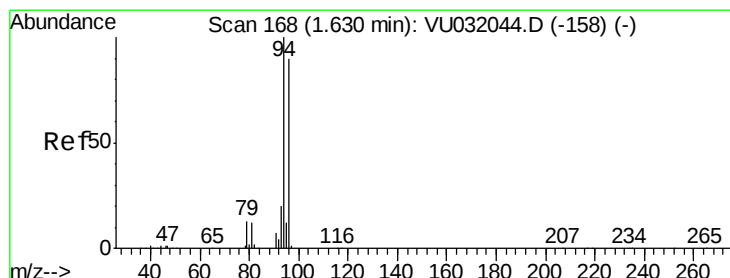
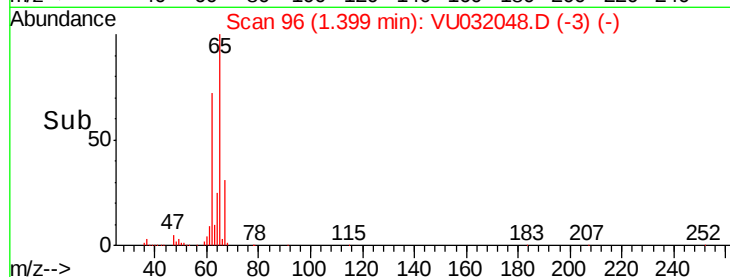
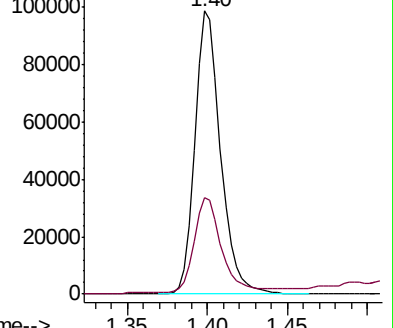
62 100

64 34.3 24.8 46.1



Abundance Ion 62.00 (61.70 to 62.70): VU032048.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU032048.D (-87) (-)



#6

Bromomethane

Concen: 5.209 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU032048.D

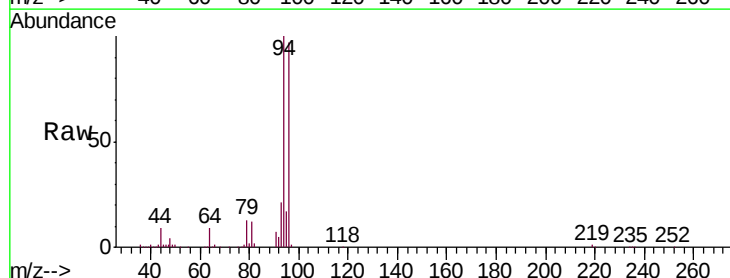
Acq: 16 May 2019 14:43

Tgt Ion: 94 Resp: 64221

Ion Ratio Lower Upper

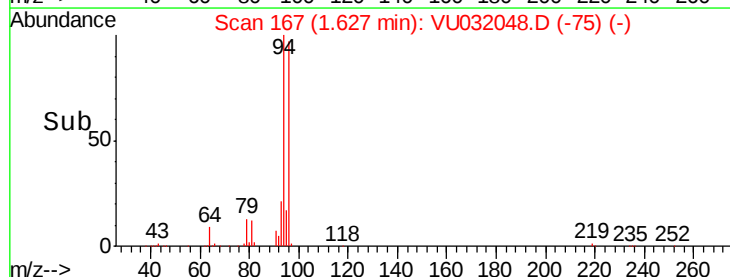
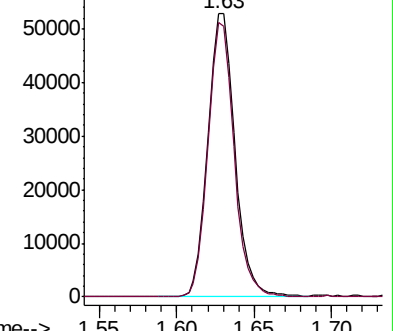
94 100

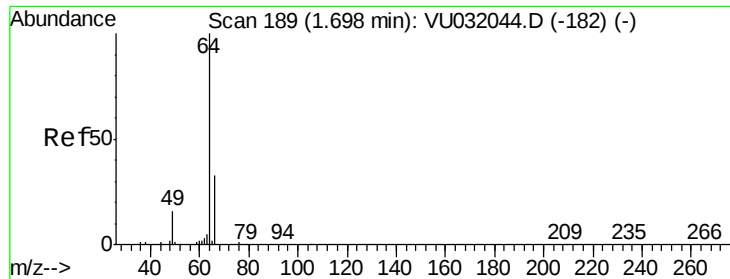
96 96.9 63.3 117.7



Abundance Ion 94.00 (93.70 to 94.70): VU032048.D (-158) (-)

Ion 96.00 (95.70 to 96.70): VU032048.D (-158) (-)





#8

Chloroethane

Concen: 5.078 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

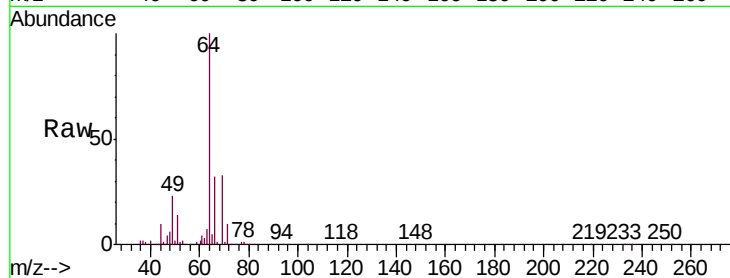
VSTD00501

Tgt Ion: 64 Resp: 67358

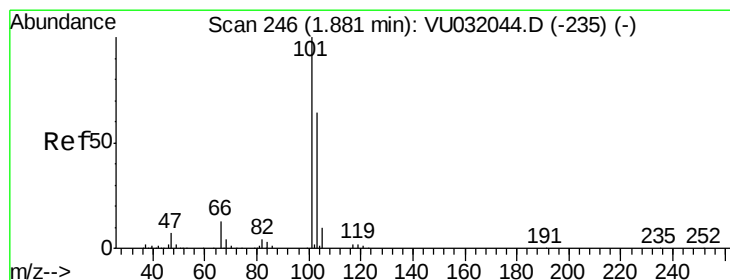
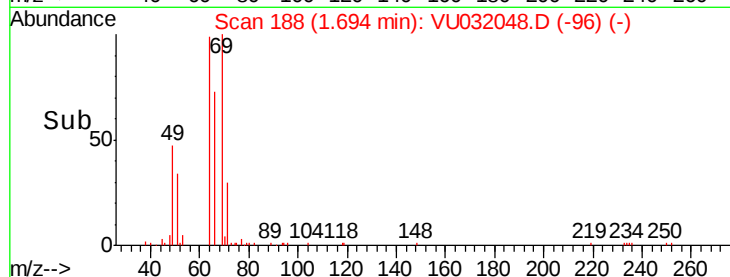
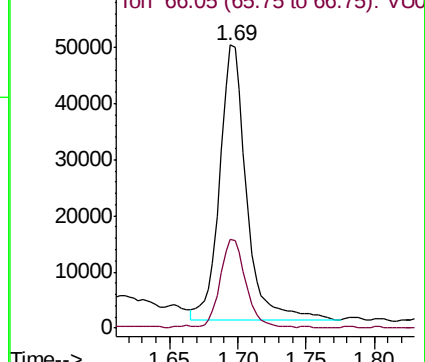
Ion Ratio Lower Upper

64 100

66 31.6 22.0 41.0



Abundance Ion 64.10 (63.80 to 64.80): VU032048.D (-182) (-)



#9

Trichlorofluoromethane

Concen: 5.120 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU032048.D

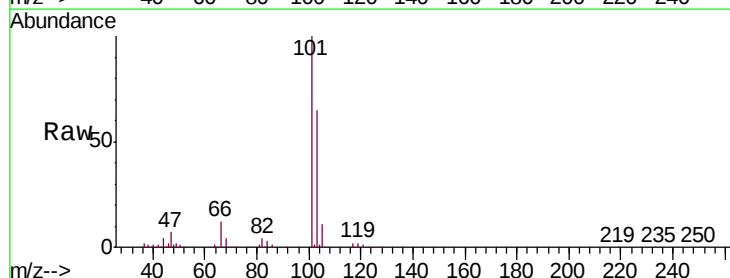
Acq: 16 May 2019 14:43

Tgt Ion: 101 Resp: 134378

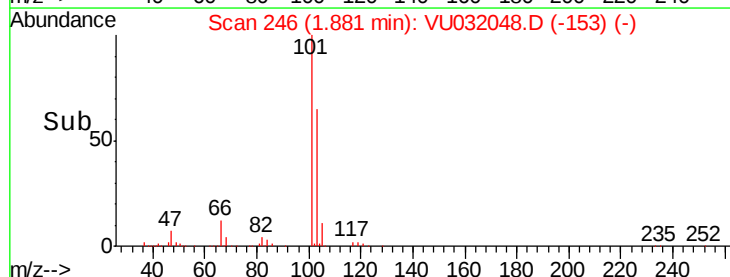
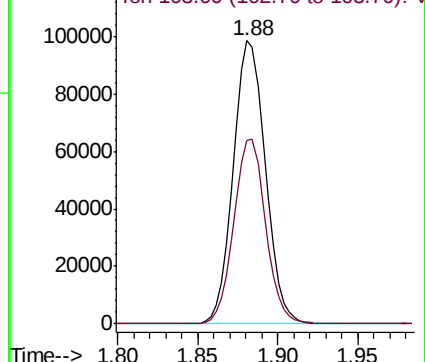
Ion Ratio Lower Upper

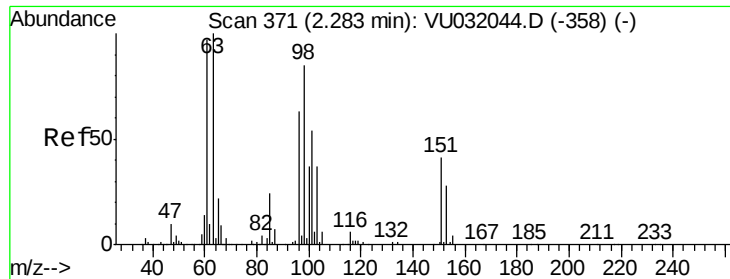
101 100

103 64.6 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU032048.D (-235) (-)





#10

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

Concen: 5.036 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

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VSTD00501

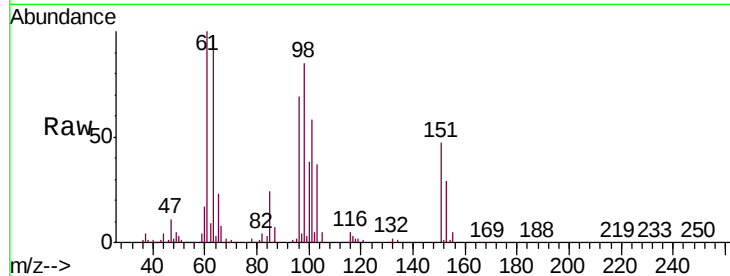
Tgt Ion:101 Resp: 87571

Ion Ratio Lower Upper

101 100

85 40.4 33.8 50.8

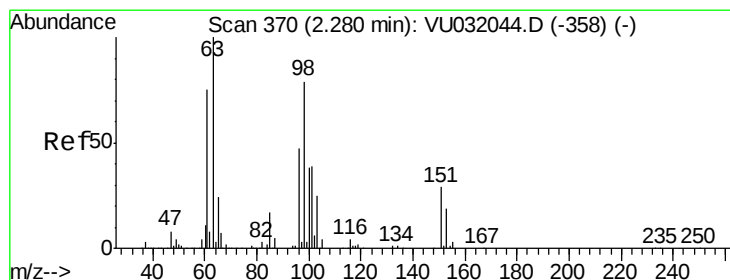
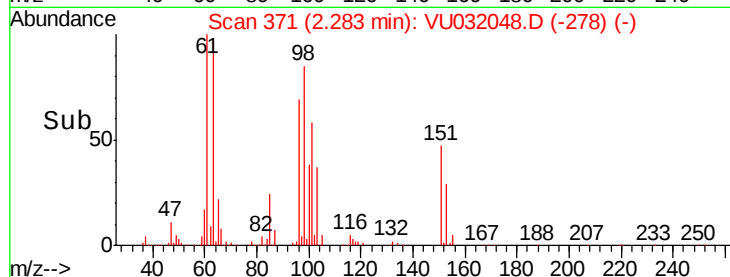
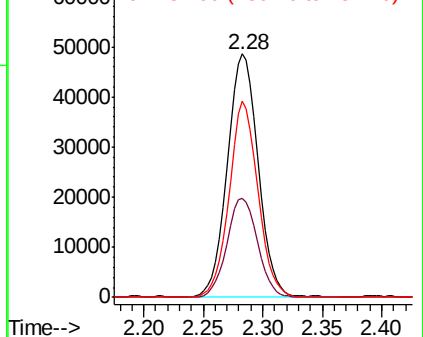
151 75.1 59.4 89.2



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: 5.113 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

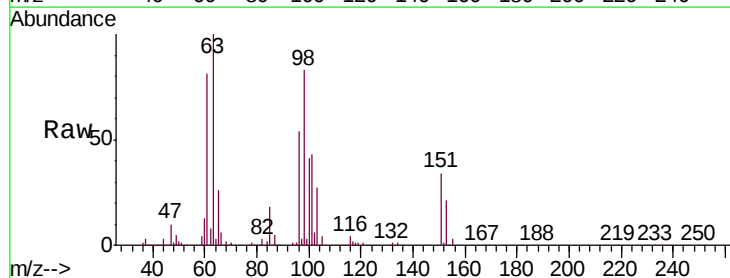
Tgt Ion: 96 Resp: 87034

Ion Ratio Lower Upper

96 100

61 149.2 111.7 207.5

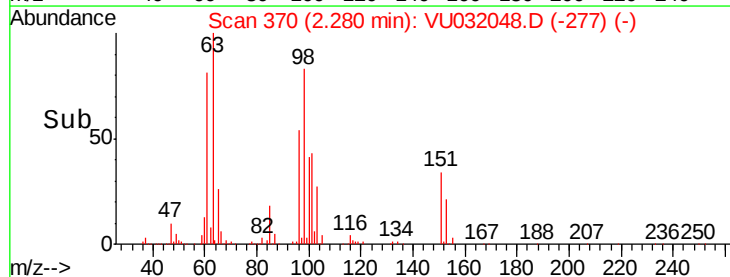
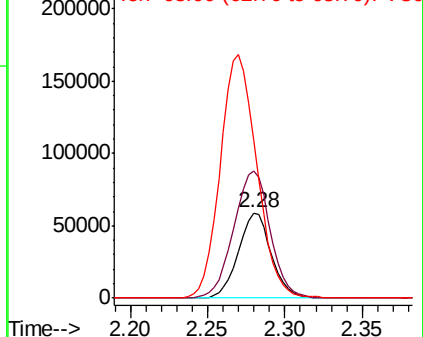
63 184.4 152.2 282.6

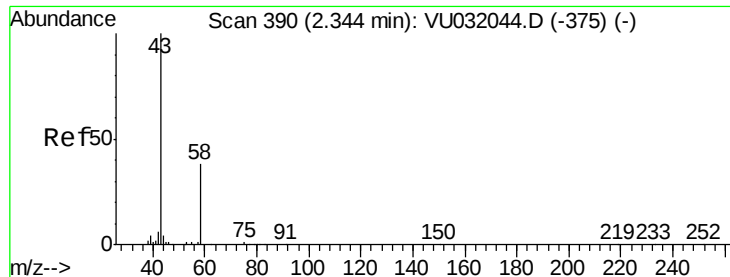


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.189 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.01 min

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Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

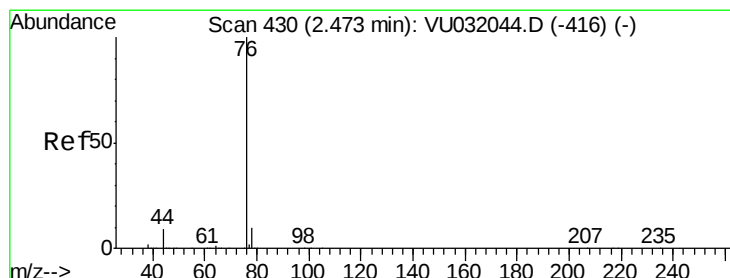
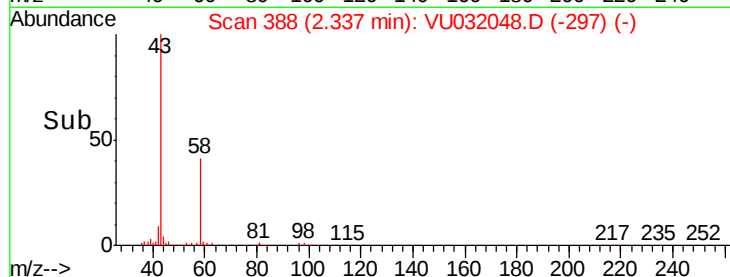
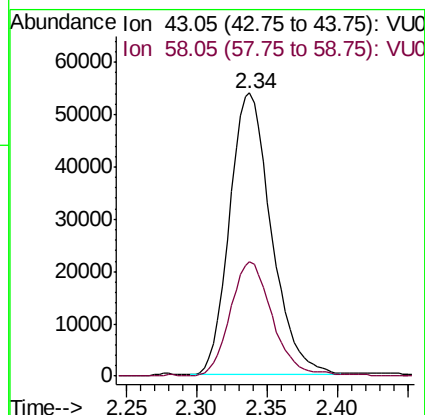
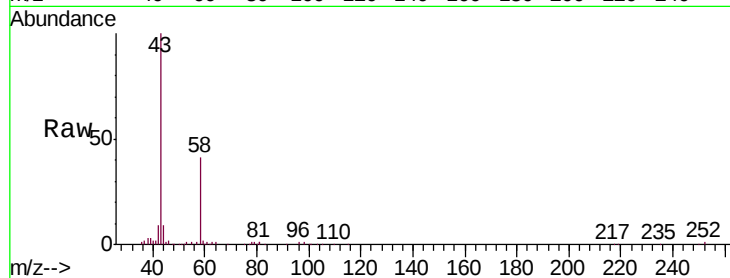
VSTD00501

Tgt Ion: 43 Resp: 110896

Ion Ratio Lower Upper

43 100

58 40.8 0.0 78.8



#14

Carbon disulfide

Concen: 5.040 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU032048.D

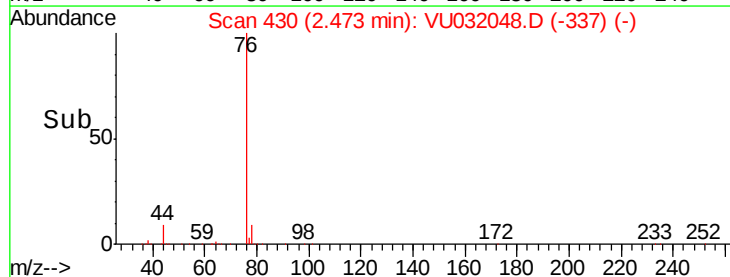
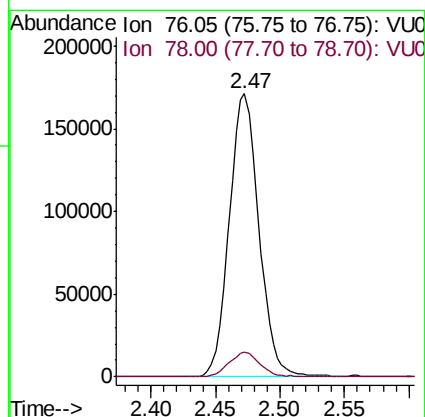
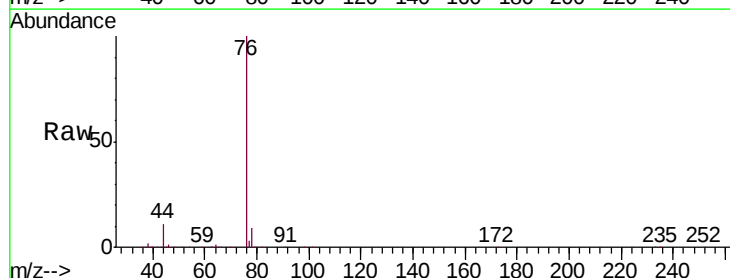
Acq: 16 May 2019 14:43

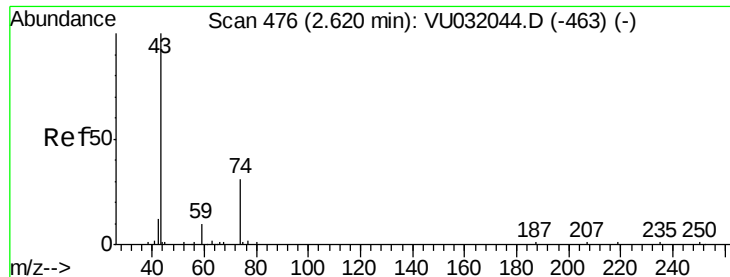
Tgt Ion: 76 Resp: 273643

Ion Ratio Lower Upper

76 100

78 8.8 7.8 11.6

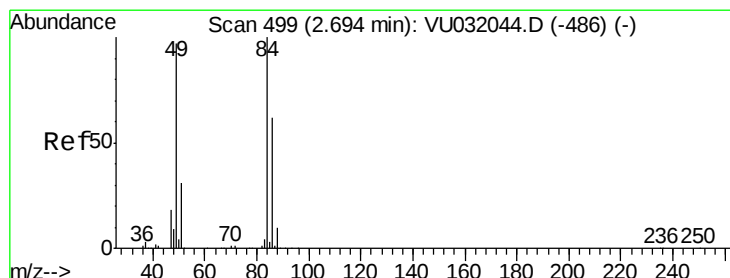
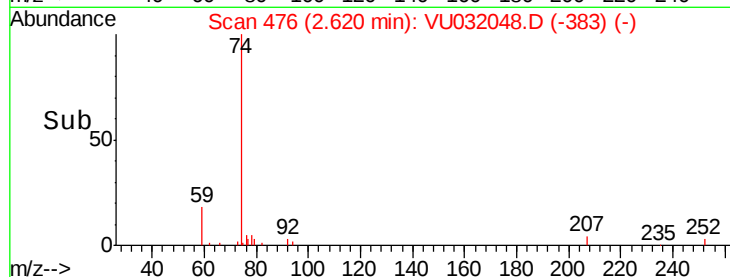
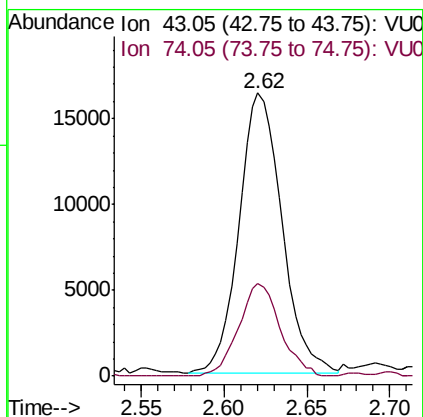
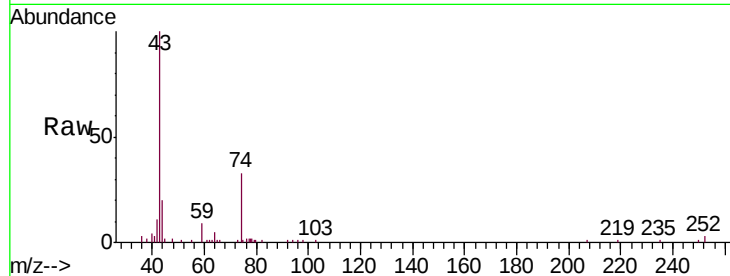




#15
Methyl Acetate
Concen: 4.444 ug/L
RT: 2.62 min Scan# 476
Delta R.T. -0.00 min
Lab File: VU032048.D
Acq: 16 May 2019 14:43

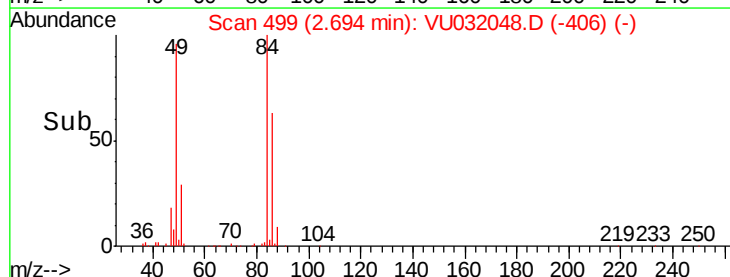
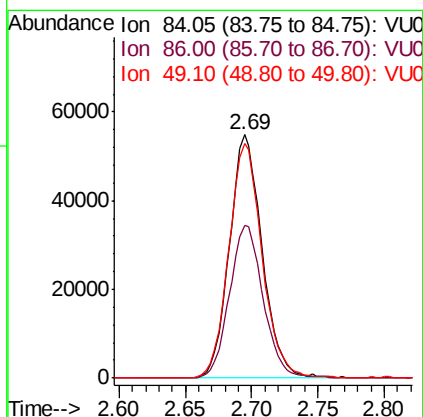
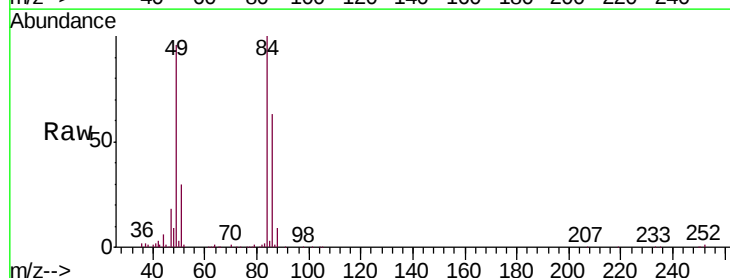
Instrument :
MSVOA_U
ClientSampleId :
VSTD00501

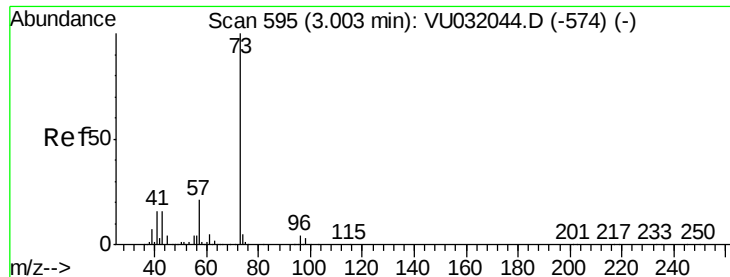
Tgt Ion: 43 Resp: 29323
Ion Ratio Lower Upper
43 100
74 32.0 26.4 39.6



#16
Methylene chloride
Concen: 4.631 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU032048.D
Acq: 16 May 2019 14:43

Tgt Ion: 84 Resp: 94090
Ion Ratio Lower Upper
84 100
86 62.8 43.1 80.1
49 96.3 67.7 125.7





#17

Methyl tert-butyl Ether

Concen: 4.964 ug/L

RT: 3.00 min Scan# 595

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

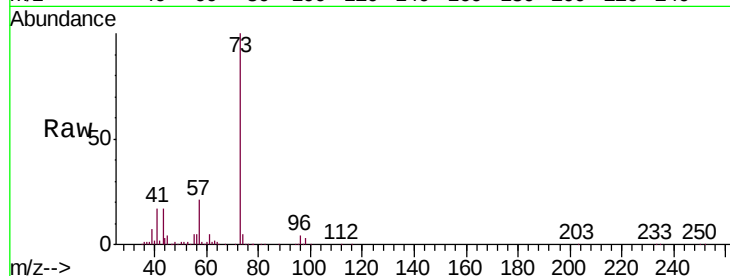
Tgt Ion: 73 Resp: 198657

Ion Ratio Lower Upper

73 100

43 16.2 13.0 19.6

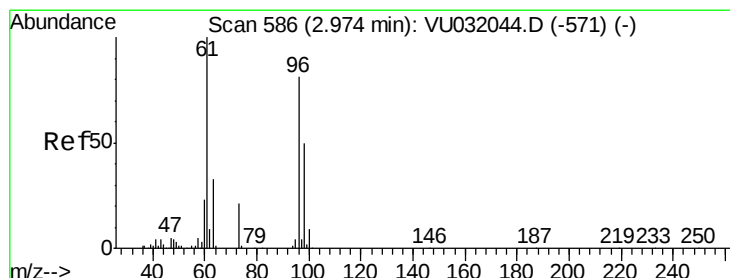
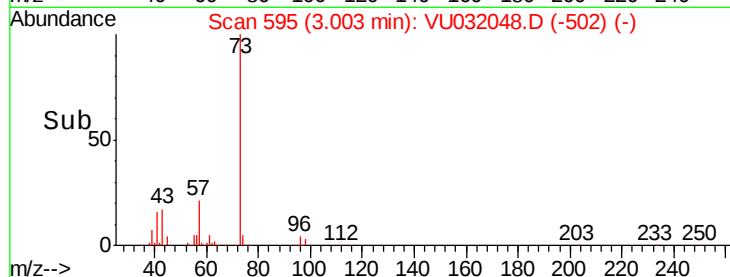
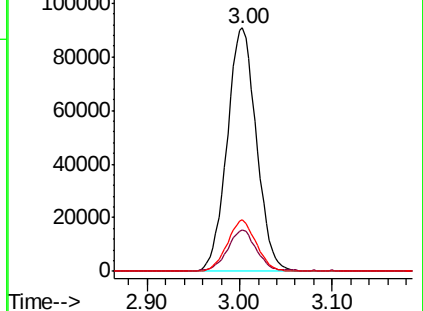
57 20.8 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VU032048.D (-574) (-)

Ion 43.05 (42.75 to 43.75): VU032048.D (-574) (-)

Ion 57.10 (56.80 to 57.80): VU032048.D (-574) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.087 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

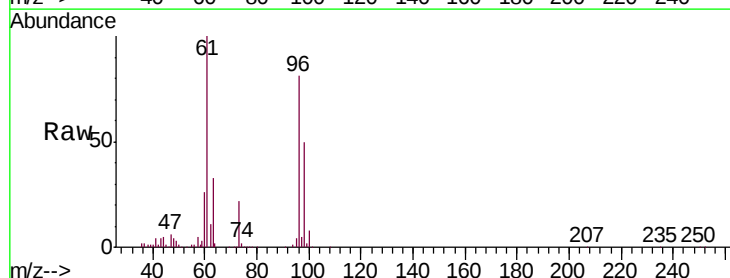
Tgt Ion: 96 Resp: 92692

Ion Ratio Lower Upper

96 100

61 123.5 86.5 160.7

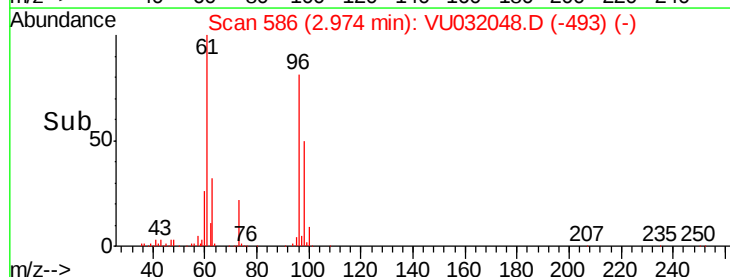
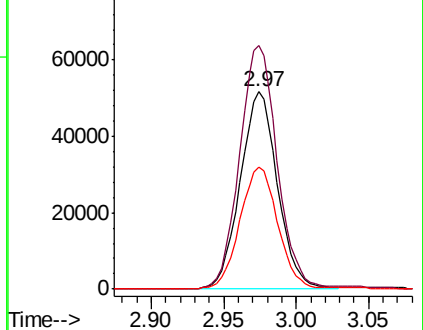
98 61.7 43.5 80.9

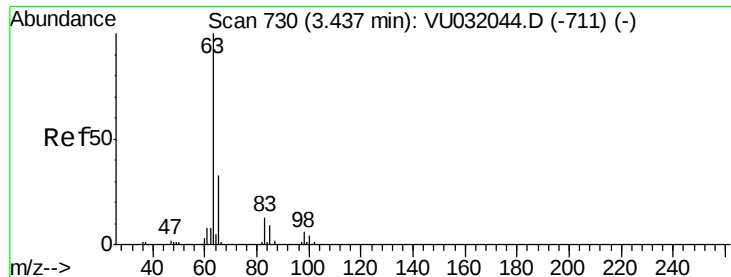


Abundance Ion 96.00 (95.70 to 96.70): VU032048.D (-571) (-)

Ion 61.05 (60.75 to 61.75): VU032048.D (-571) (-)

Ion 97.95 (97.65 to 98.65): VU032048.D (-571) (-)

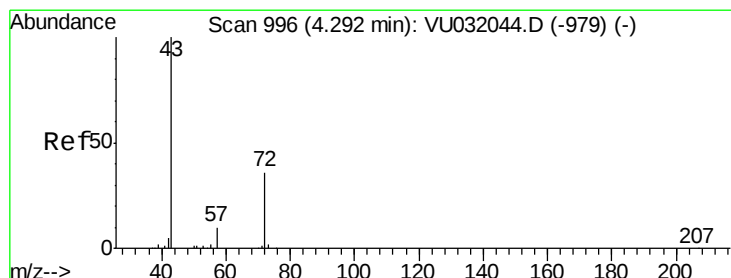
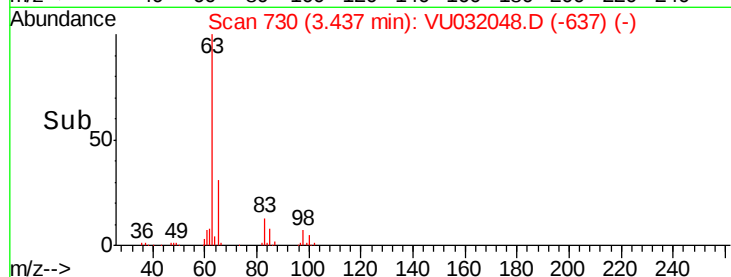
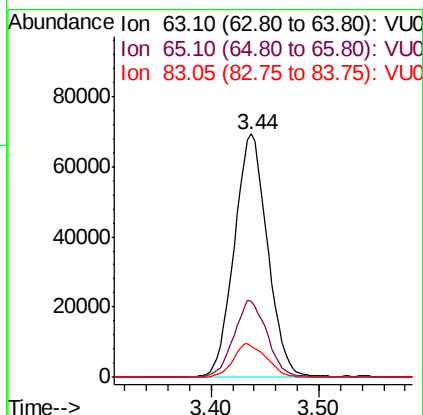
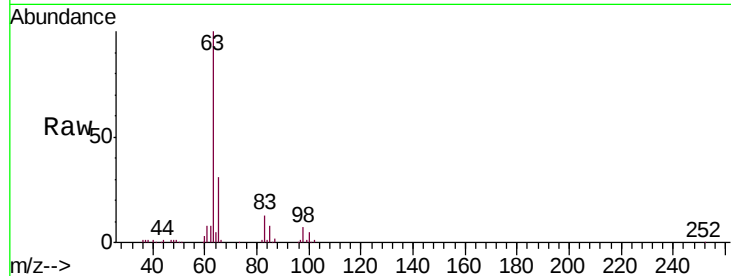




#19
 1,1-Dichloroethane
 Concen: 5.151 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

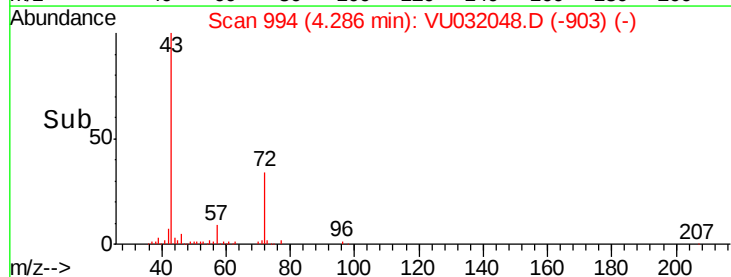
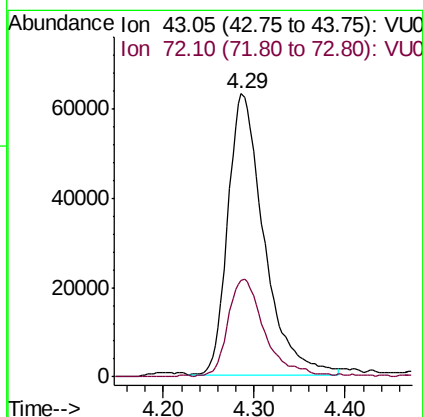
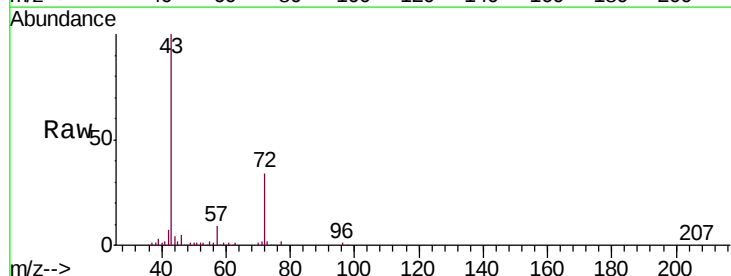
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

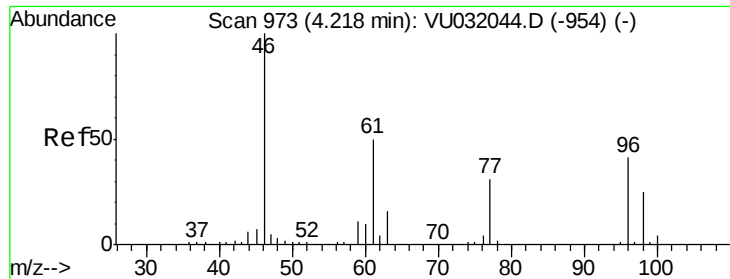
Tgt Ion: 63 Resp: 148882
 Ion Ratio Lower Upper
 63 100
 65 31.2 23.0 42.6
 83 13.0 9.3 17.3



#21
 2-Butanone
 Concen: 52.473 ug/L
 RT: 4.29 min Scan# 994
 Delta R.T. -0.01 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Tgt Ion: 43 Resp: 173328
 Ion Ratio Lower Upper
 43 100
 72 34.3 16.8 50.3





#22

cis-1,2-Dichloroethene

Concen: 5.025 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

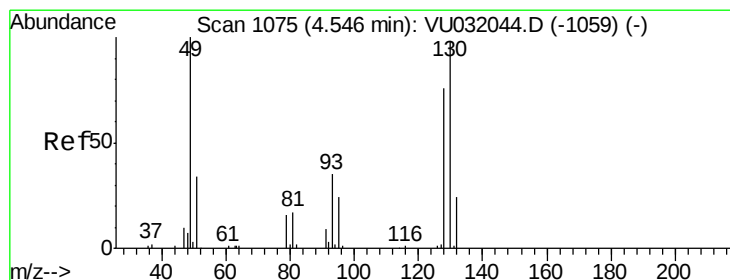
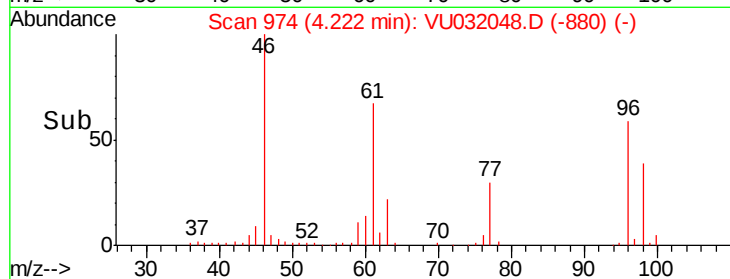
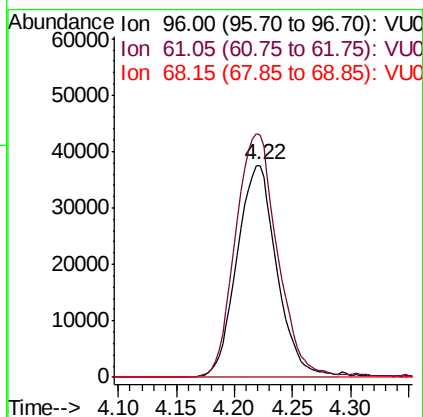
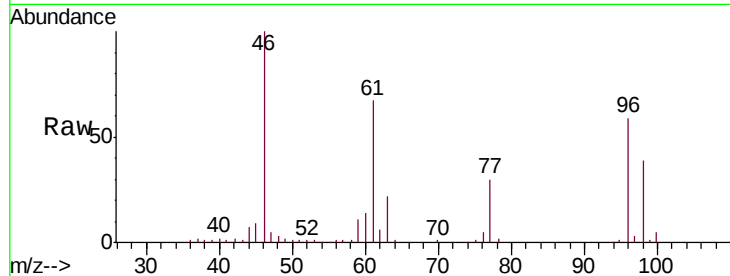
Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD00501

Tgt Ion: 96 Resp: 90077

Ion	Ratio	Lower	Upper
96	100		
61	114.1	85.8	159.4
68	0.0	0.0	0.0



#23

Bromochloromethane

Concen: 5.406 ug/L

RT: 4.55 min Scan# 1075

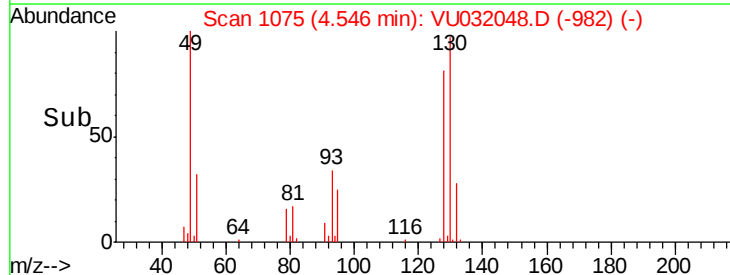
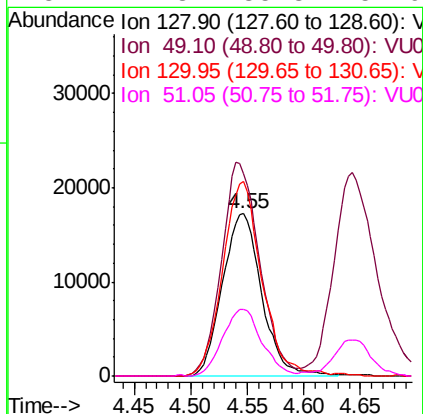
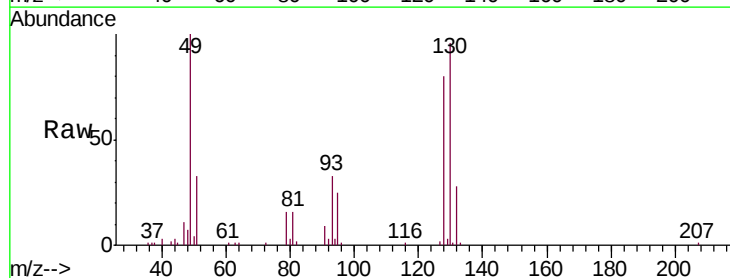
Delta R.T. -0.00 min

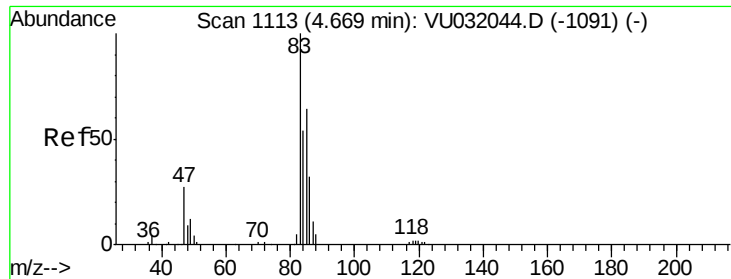
Lab File: VU032048.D

Acq: 16 May 2019 14:43

Tgt Ion: 128 Resp: 41582

Ion	Ratio	Lower	Upper
128	100		
49	124.8	92.2	171.2
130	119.5	90.3	167.7
51	41.3	35.3	52.9





#25

Chloroform

Concen: 5.031 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

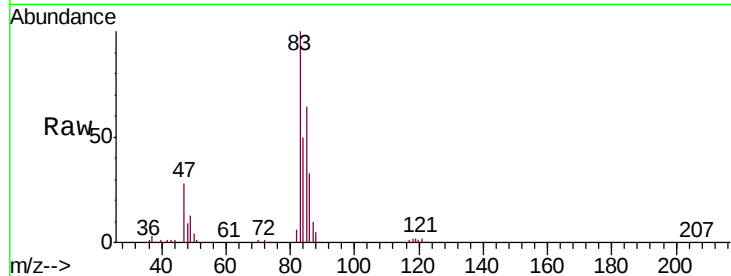
VSTD00501

Tgt Ion: 83 Resp: 155500

Ion Ratio Lower Upper

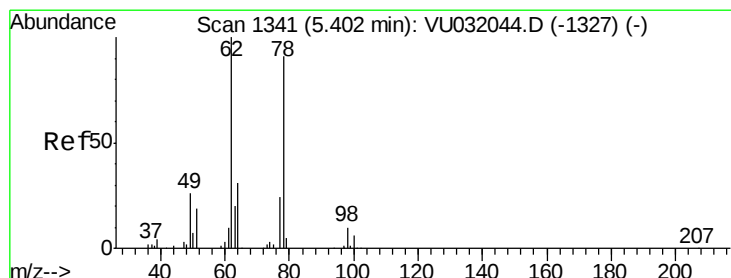
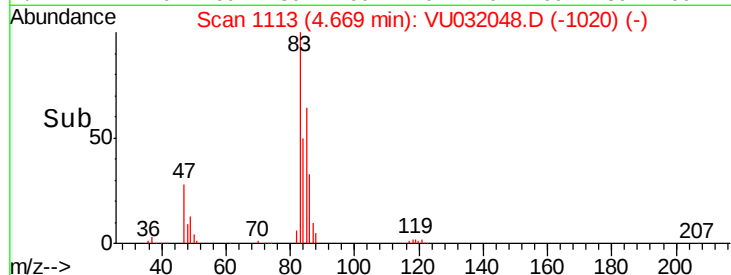
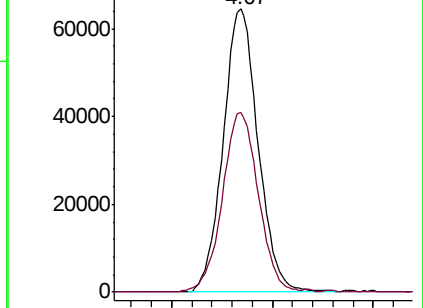
83 100

85 63.7 44.9 83.3



Abundance Ion 83.05 (82.75 to 83.75): VU032048.D (-1091) (-)

Ion 85.00 (84.70 to 85.70): VU032048.D (-1091) (-)



#27

1,2-Dichloroethane

Concen: 5.102 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU032048.D

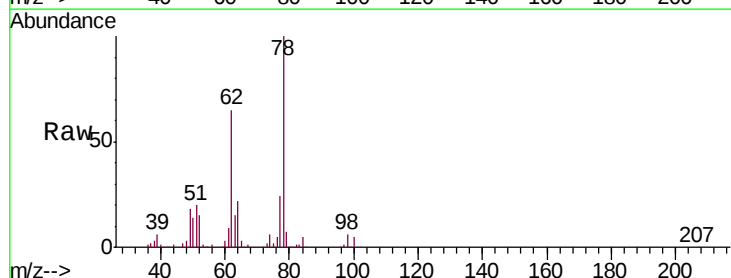
Acq: 16 May 2019 14:43

Tgt Ion: 62 Resp: 91062

Ion Ratio Lower Upper

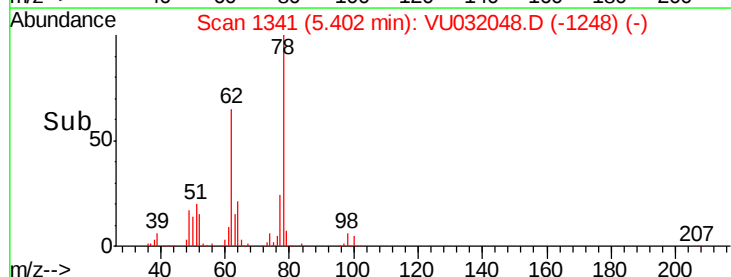
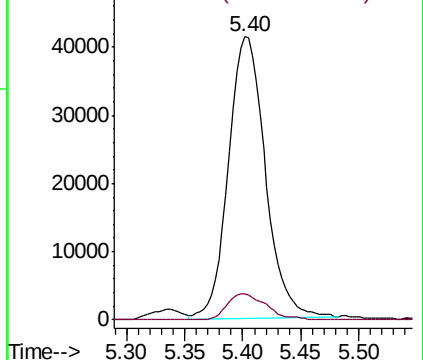
62 100

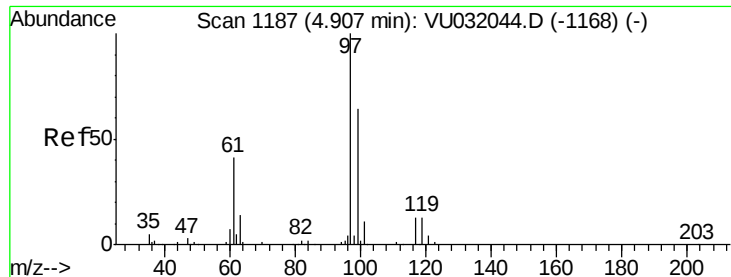
98 9.3 8.0 12.0



Abundance Ion 62.00 (61.70 to 62.70): VU032048.D (-1327) (-)

Ion 98.05 (97.75 to 98.75): VU032048.D (-1327) (-)

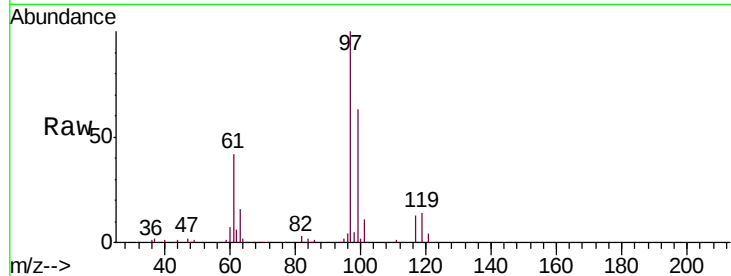




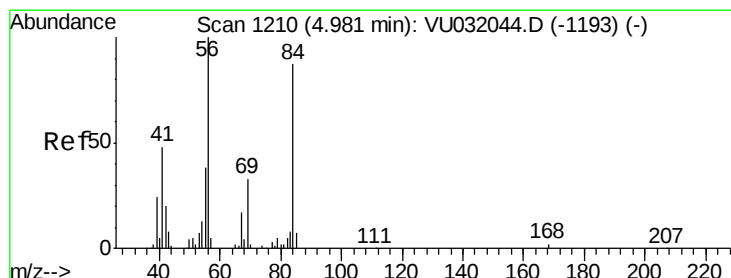
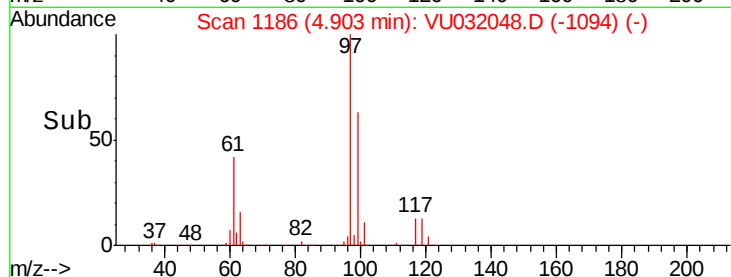
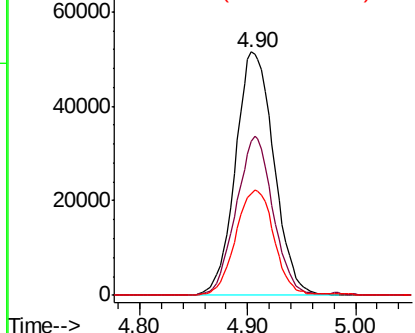
#29
 1,1,1-Trichloroethane
 Concen: 5.136 ug/L
 RT: 4.90 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.6	53.7	80.5
61	43.1	34.2	51.4

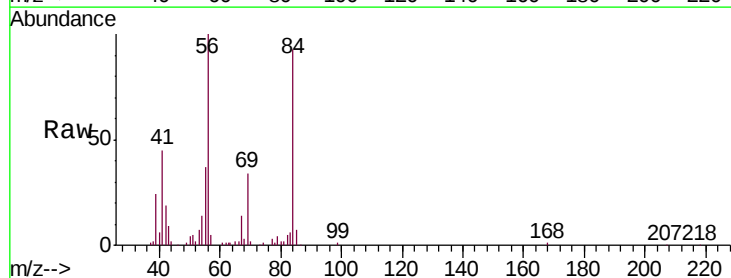


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

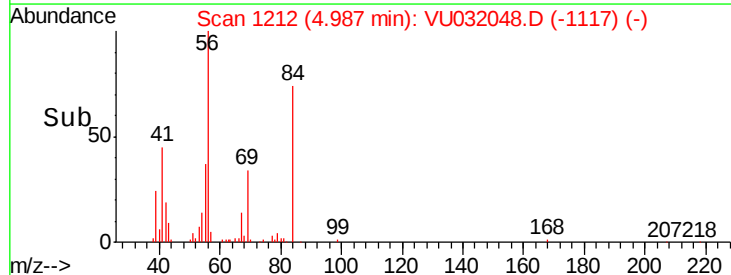
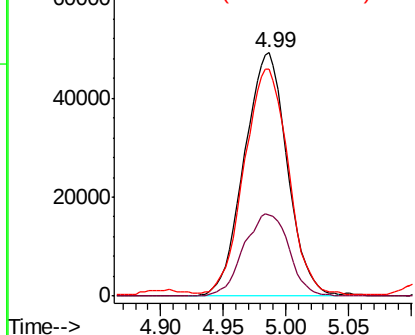


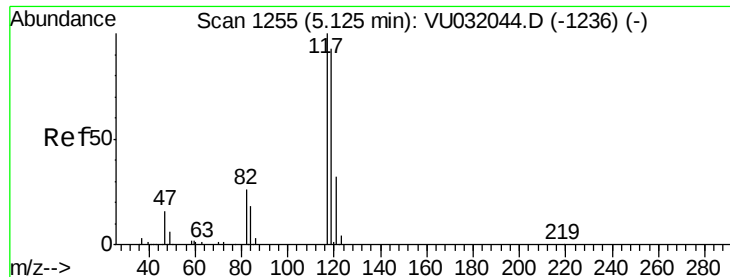
#30
 Cyclohexane
 Concen: 5.131 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. 0.01 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Tgt Ion	Ratio	Lower	Upper
56	100		
69	35.4	26.9	40.3
84	94.7	76.6	115.0



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





#31

Carbon tetrachloride

Concen: 5.123 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

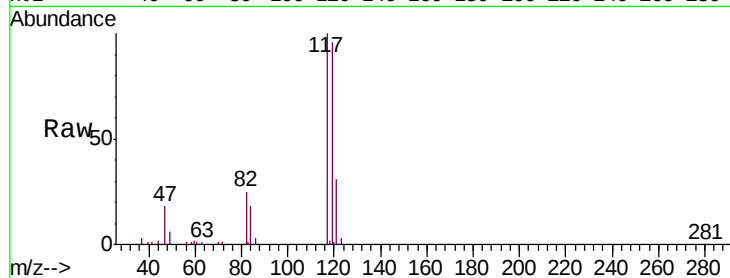
VSTD00501

Tgt Ion:117 Resp: 108293

Ion Ratio Lower Upper

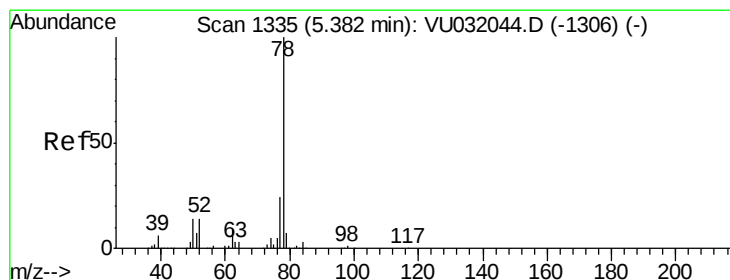
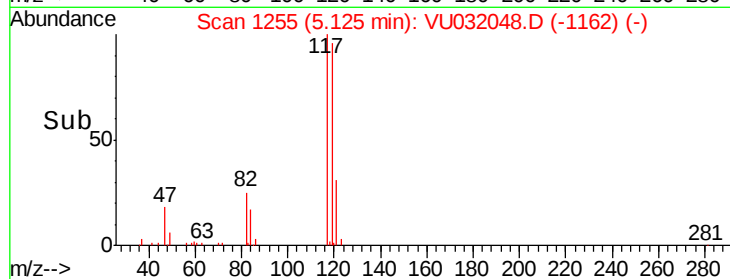
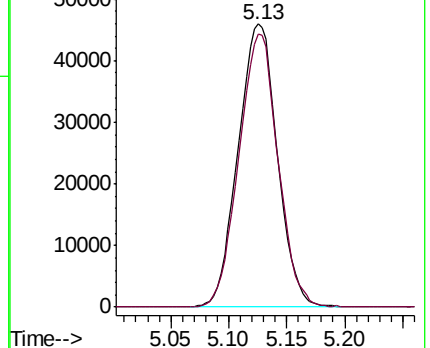
117 100

119 96.0 75.8 113.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.247 ug/L

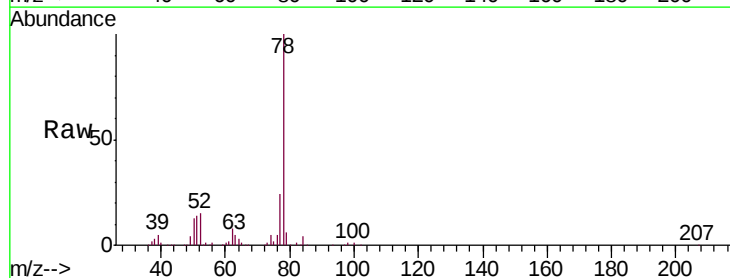
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

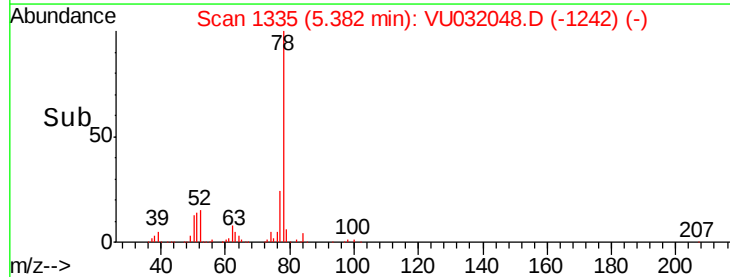
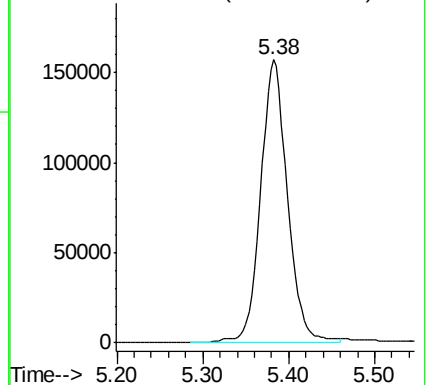
Lab File: VU032048.D

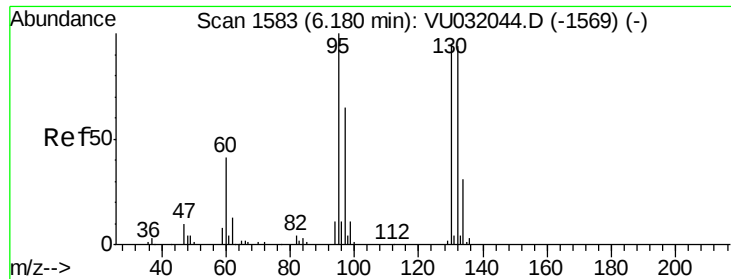
Acq: 16 May 2019 14:43

Tgt Ion: 78 Resp: 343347



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.940 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

Tgt Ion: 95 Resp: 87678

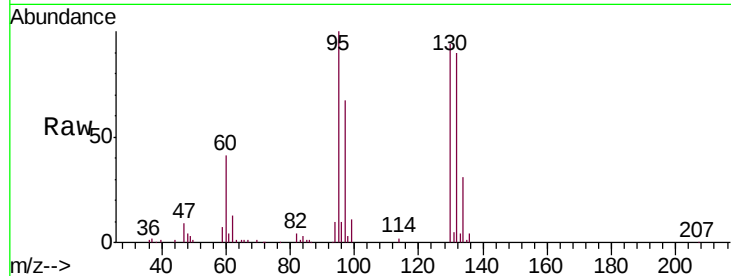
Ion Ratio Lower Upper

95 100

97 67.0 45.2 84.0

132 89.6 66.1 122.7

130 93.9 66.7 123.9

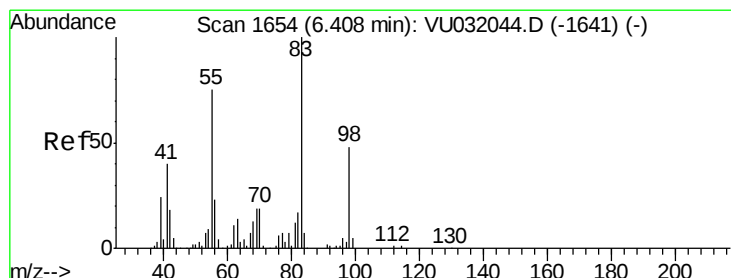
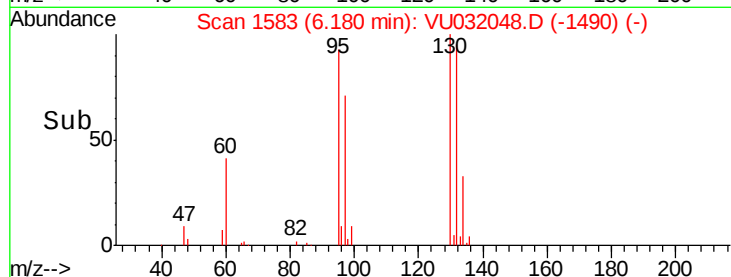
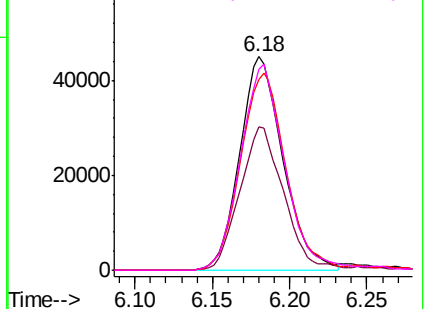


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.076 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

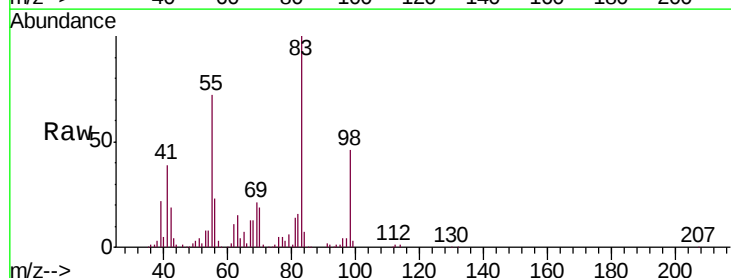
Tgt Ion: 83 Resp: 129733

Ion Ratio Lower Upper

83 100

55 73.9 59.7 89.5

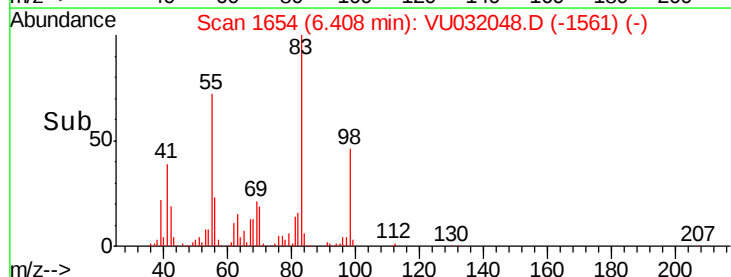
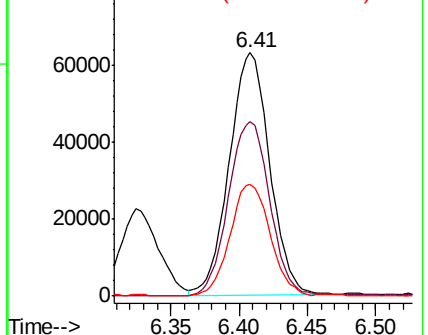
98 46.0 36.8 55.2

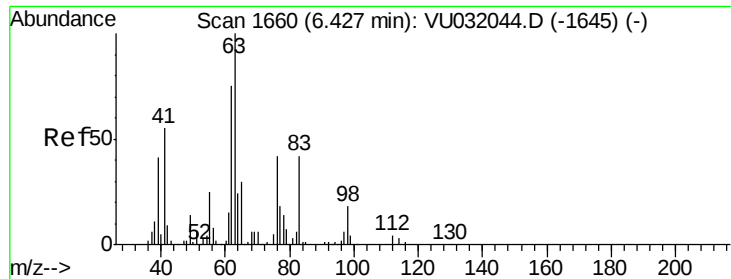


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.005 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

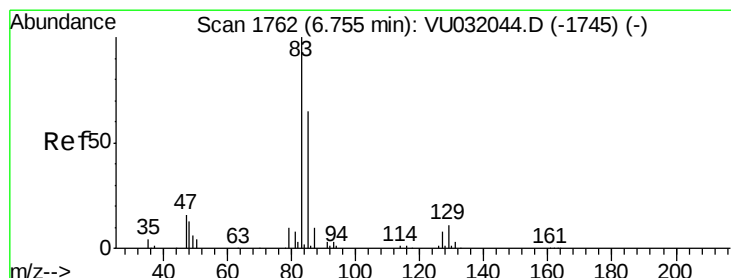
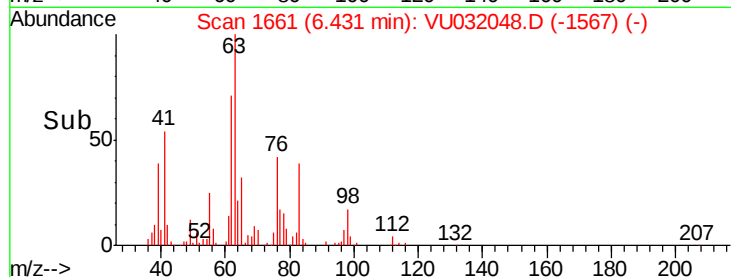
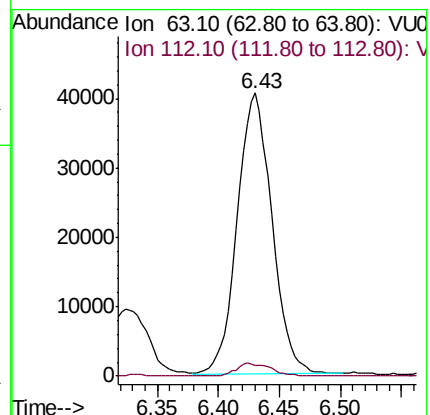
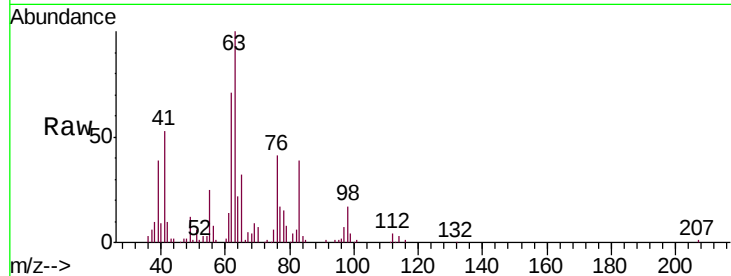
VSTD00501

Tgt Ion: 63 Resp: 80083

Ion Ratio Lower Upper

63 100

112 4.5 3.8 5.6



#38

Bromodichloromethane

Concen: 5.034 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

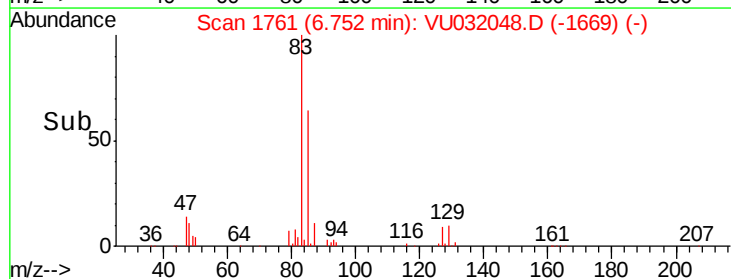
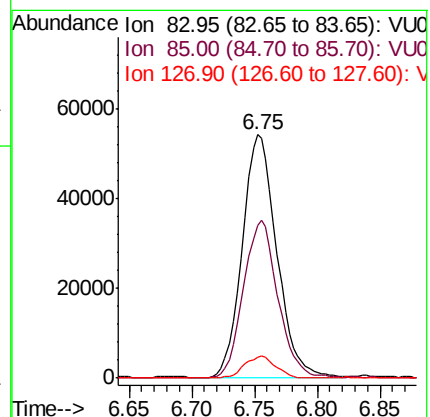
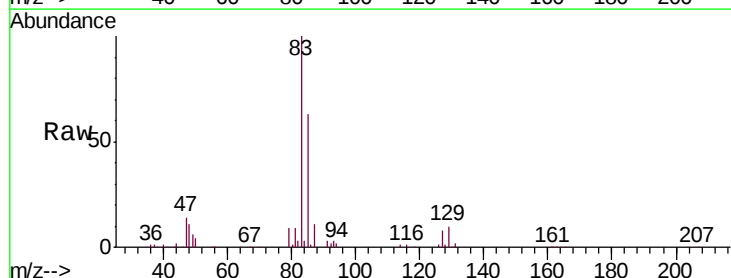
Tgt Ion: 83 Resp: 103021

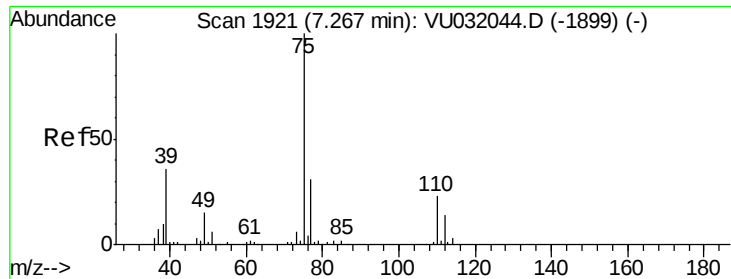
Ion Ratio Lower Upper

83 100

85 62.8 45.5 84.5

127 8.5 6.3 9.5

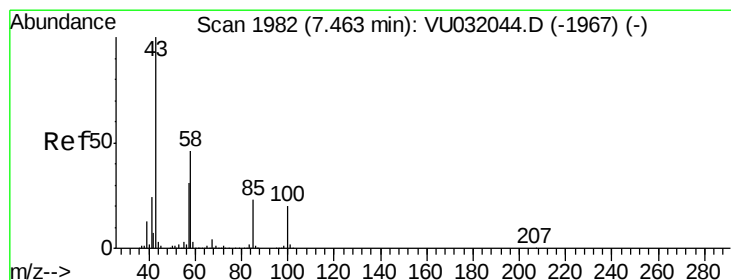
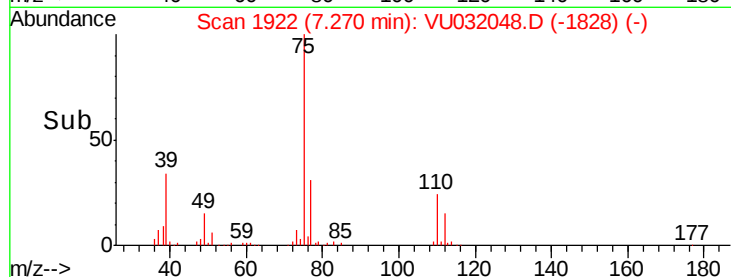
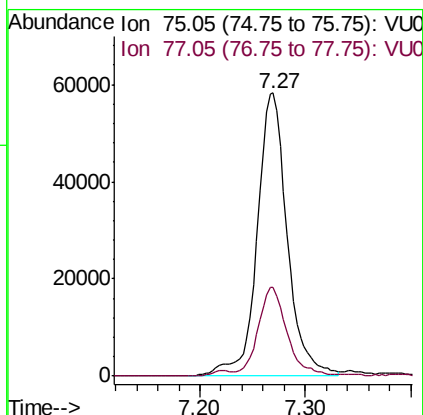
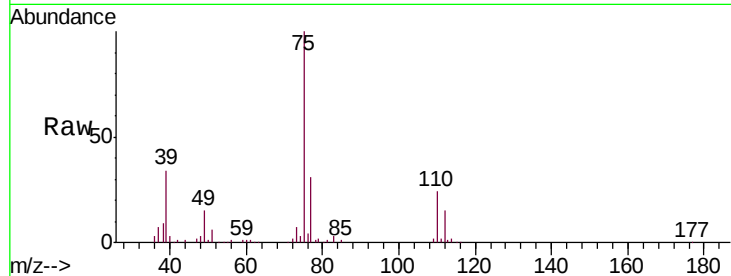




#39
 cis-1,3-Dichloropropene
 Concen: 5.263 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

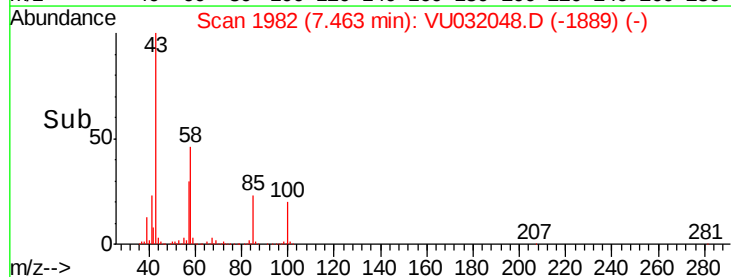
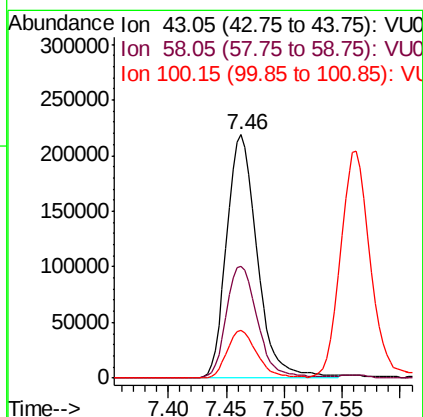
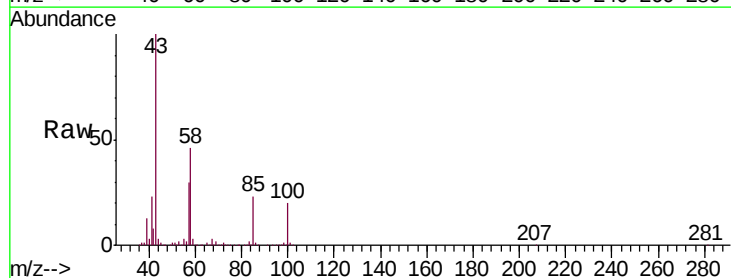
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

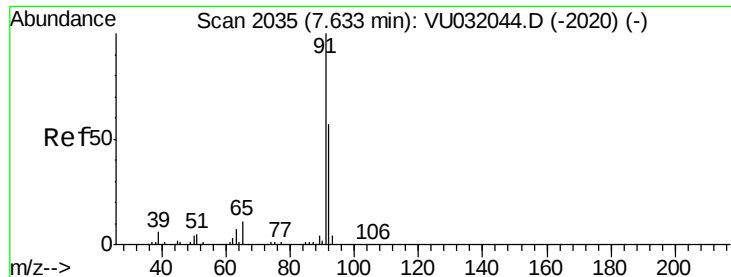
Tgt Ion: 75 Resp: 116438
 Ion Ratio Lower Upper
 75 100
 77 31.4 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 53.916 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Tgt Ion: 43 Resp: 399892
 Ion Ratio Lower Upper
 43 100
 58 46.8 37.3 55.9
 100 19.2 15.5 23.3





#42

Toluene

Concen: 5.297 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

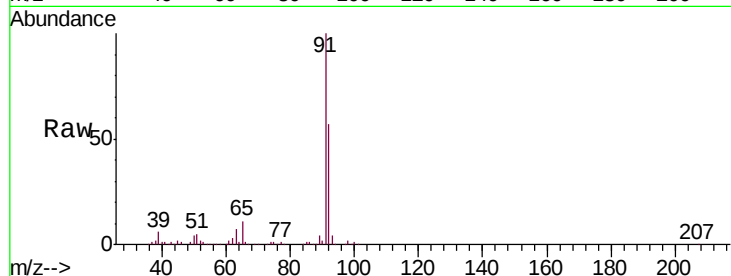
VSTD00501

Tgt Ion: 91 Resp: 363037

Ion Ratio Lower Upper

91 100

92 56.6 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU032048.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU032048.D (-2020) (-)

7.63

200000

150000

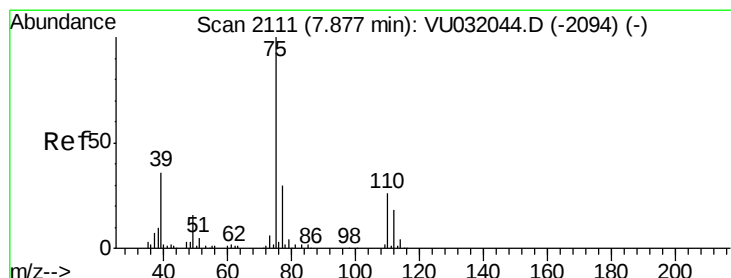
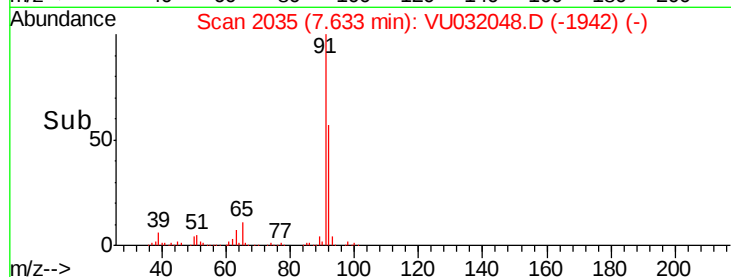
100000

50000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.296 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU032048.D

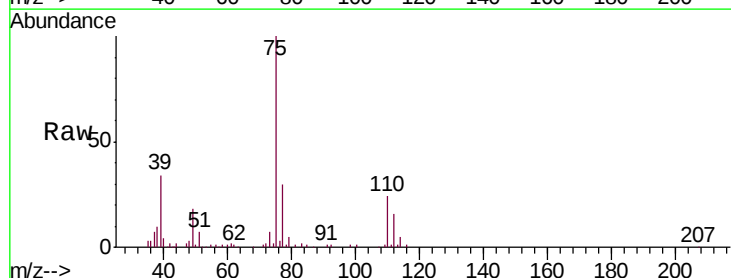
Acq: 16 May 2019 14:43

Tgt Ion: 75 Resp: 91094

Ion Ratio Lower Upper

75 100

77 29.6 21.0 39.0



Abundance Ion 75.05 (74.75 to 75.75): VU032048.D (-2094) (-)

Ion 77.05 (76.75 to 77.75): VU032048.D (-2094) (-)

7.88

50000

40000

30000

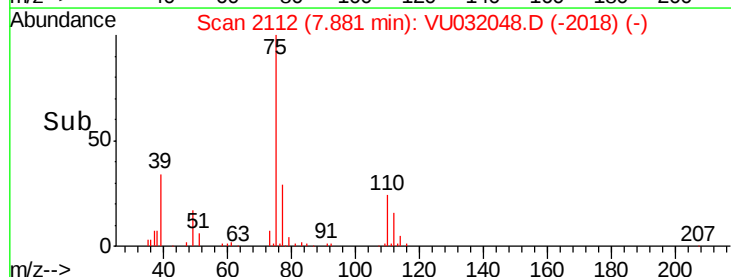
20000

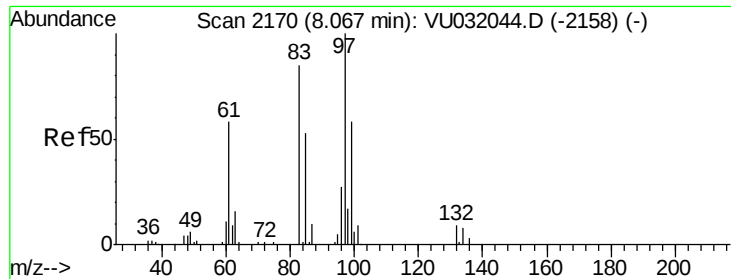
10000

0

7.80 7.90 8.00

Time-->

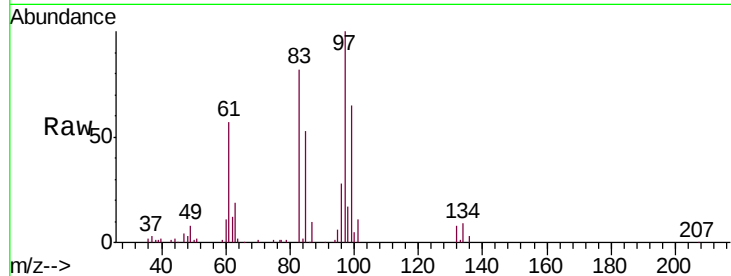




#45
 1,1,2-Trichloroethane
 Concen: 5.266 ug/L
 RT: 8.07 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00501

Tgt Ion:	97	Resp:	62237
Ion	Ratio	Lower	Upper
97	100		
99	64.7	40.7	75.7
83	81.9	59.6	110.8
85	52.5	37.3	69.3



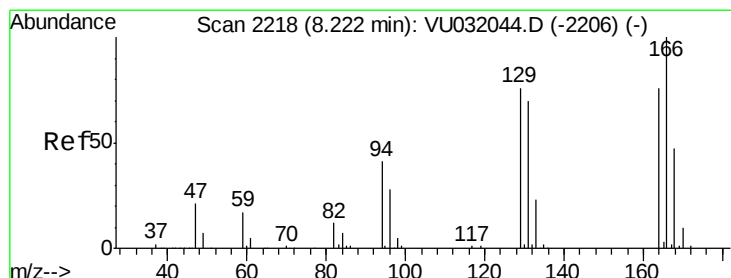
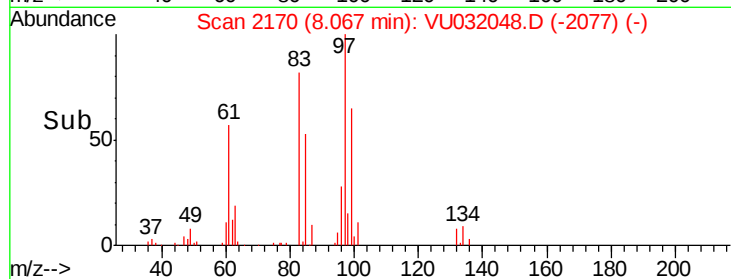
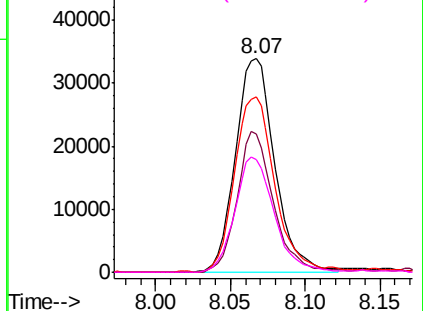
Abundance

Ion 96.95 (96.65 to 97.65): VU032048.D (-2158) (-)

Ion 99.05 (98.75 to 99.75): VU032048.D (-2158) (-)

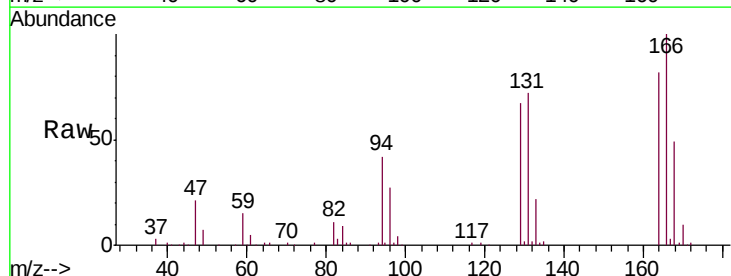
Ion 82.95 (82.65 to 83.65): VU032048.D (-2158) (-)

Ion 85.00 (84.70 to 85.70): VU032048.D (-2158) (-)



#47
 Tetrachloroethene
 Concen: 5.328 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Tgt Ion:	164	Resp:	70697
Ion	Ratio	Lower	Upper
164	100		
129	82.4	70.3	130.5
131	87.8	64.5	119.9
166	122.0	92.3	171.5



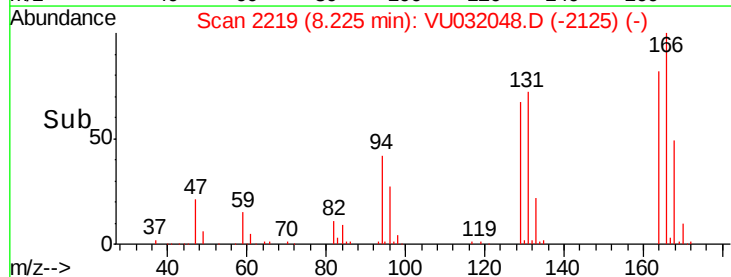
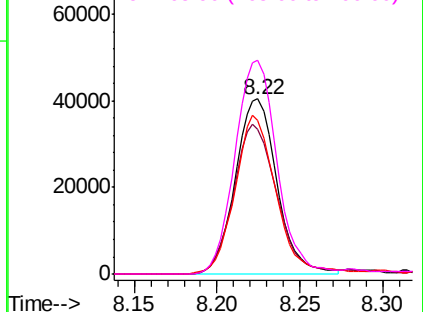
Abundance

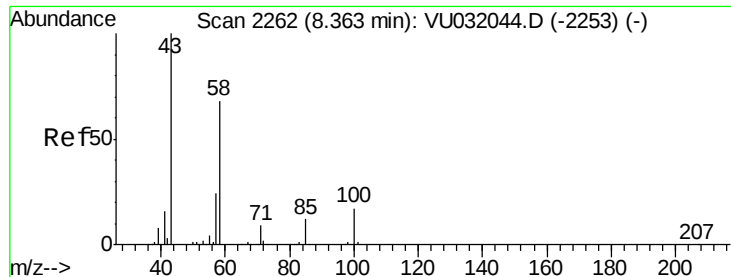
Ion 163.90 (163.60 to 164.60): VU032048.D (-2125) (-)

Ion 128.95 (128.65 to 129.65): VU032048.D (-2125) (-)

Ion 130.95 (130.65 to 131.65): VU032048.D (-2125) (-)

Ion 165.90 (165.60 to 166.60): VU032048.D (-2125) (-)

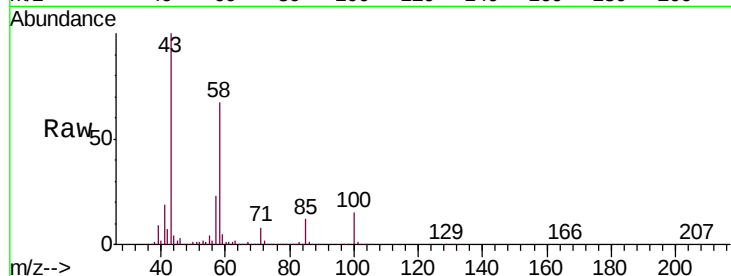




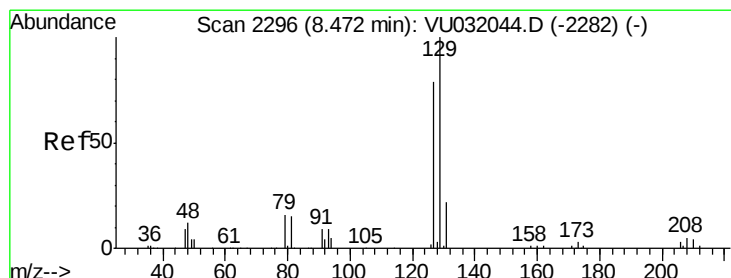
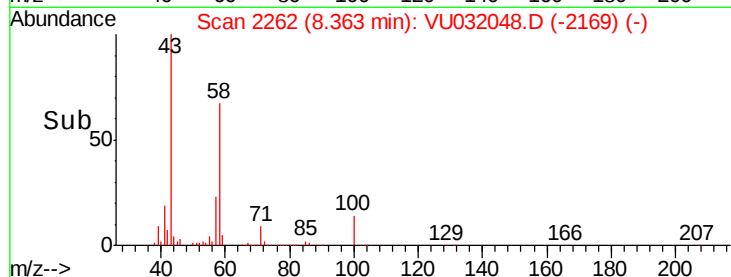
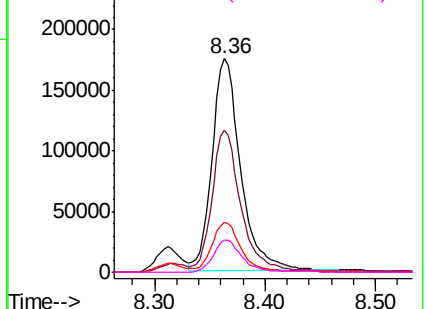
#48
2-Hexanone
Concen: 55.097 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU032048.D
Acq: 16 May 2019 14:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD00501

Tgt Ion: 43 Resp: 316978
Ion Ratio Lower Upper
43 100
58 66.0 51.6 77.4
57 23.1 18.4 27.6
100 14.6 12.2 18.4

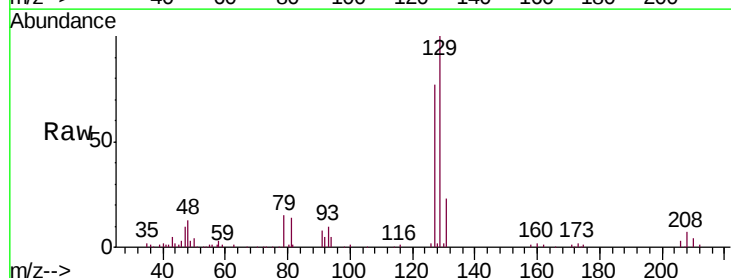


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

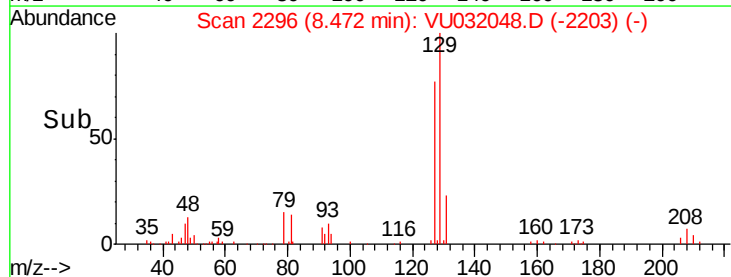
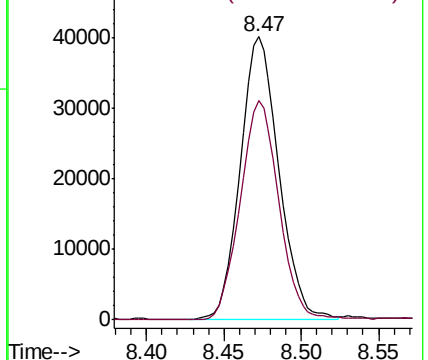


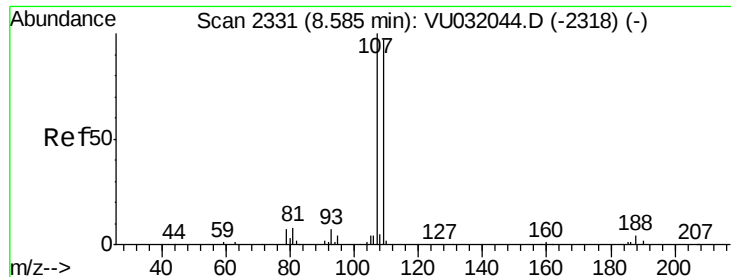
#49
Dibromochloromethane
Concen: 5.119 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU032048.D
Acq: 16 May 2019 14:43

Tgt Ion: 129 Resp: 69724
Ion Ratio Lower Upper
129 100
127 77.4 55.2 102.6



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 5.007 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

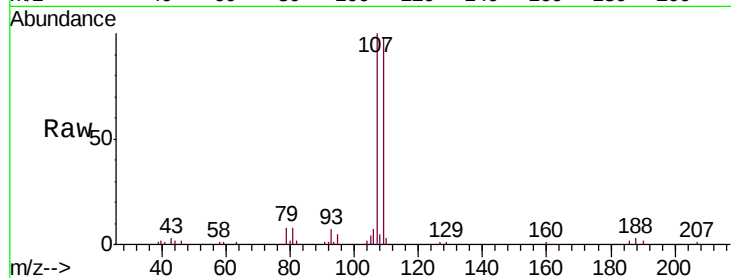
Tgt Ion:107 Resp: 56707

Ion Ratio Lower Upper

107 100

109 98.4 67.8 125.8

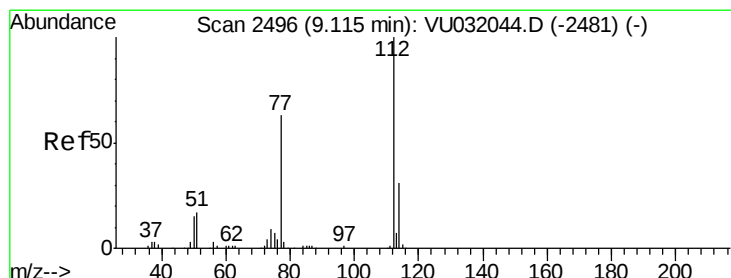
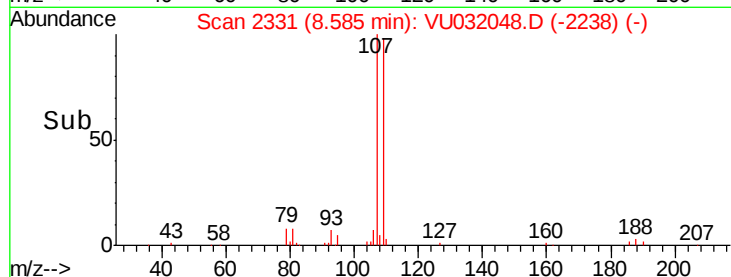
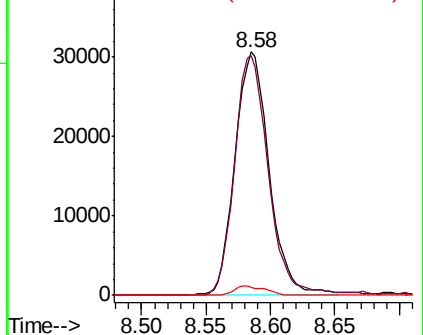
188 3.3 3.5 5.3#



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 5.269 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

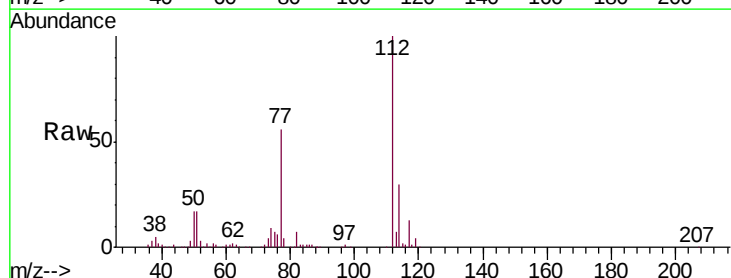
Tgt Ion:112 Resp: 228076

Ion Ratio Lower Upper

112 100

114 30.5 21.6 40.2

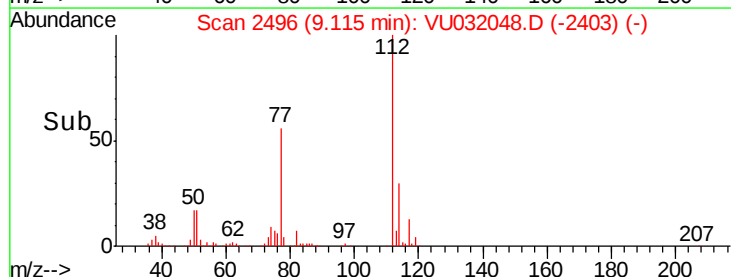
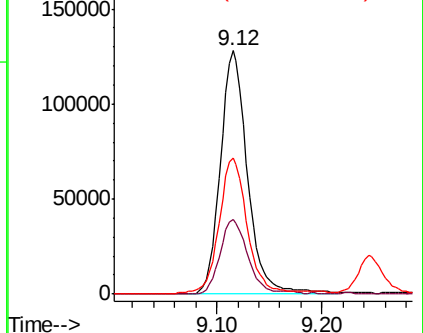
77 55.9 50.3 75.5

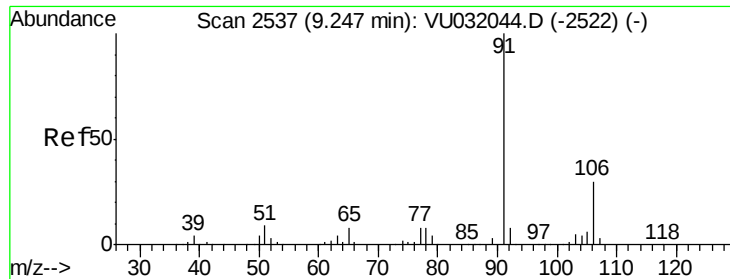


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 5.242 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

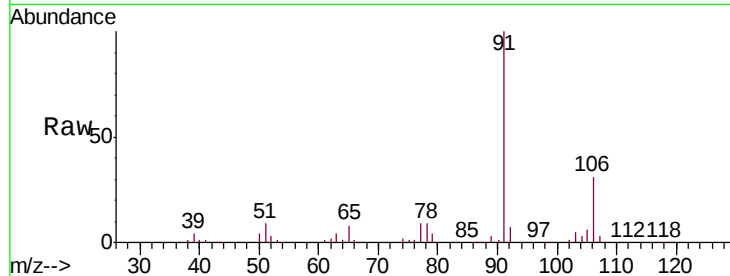
VSTD00501

Tgt Ion: 91 Resp: 360420

Ion Ratio Lower Upper

91 100

106 31.0 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU032048.D (-2522) (-)

Ion 106.15 (105.85 to 106.85): VU032048.D (-2522) (-)

9.25

250000

200000

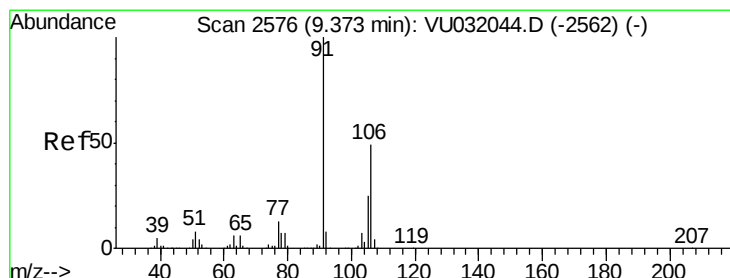
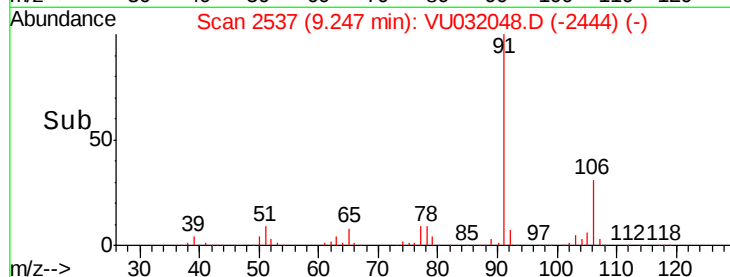
150000

100000

50000

0

Time--> 9.15 9.20 9.25 9.30 9.35



#53

m,p-Xylene

Concen: 5.411 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU032048.D

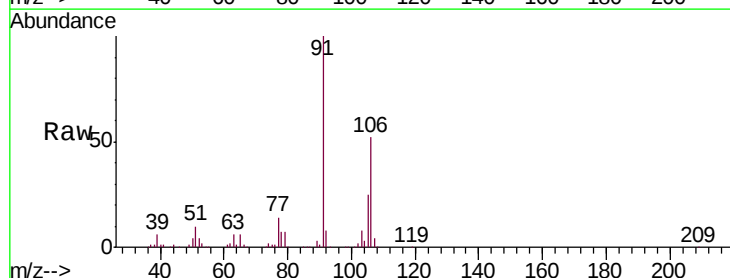
Acq: 16 May 2019 14:43

Tgt Ion: 106 Resp: 141320

Ion Ratio Lower Upper

106 100

91 191.0 143.1 265.9



Abundance Ion 106.15 (105.85 to 106.85): VU032048.D (-2562) (-)

Ion 91.15 (90.85 to 91.85): VU032048.D (-2562) (-)

9.37

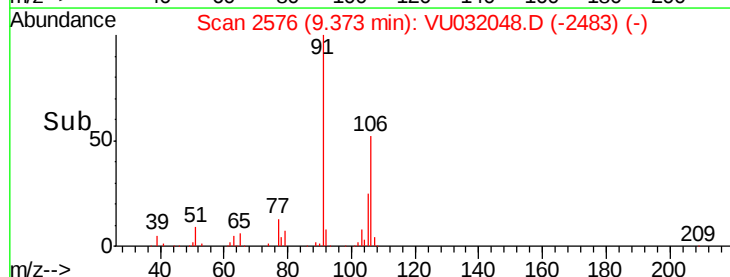
150000

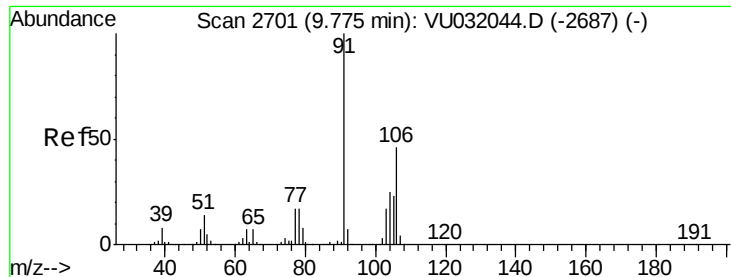
100000

50000

0

Time--> 9.30 9.35 9.40 9.45





#54

o-Xylene

Concen: 5.473 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

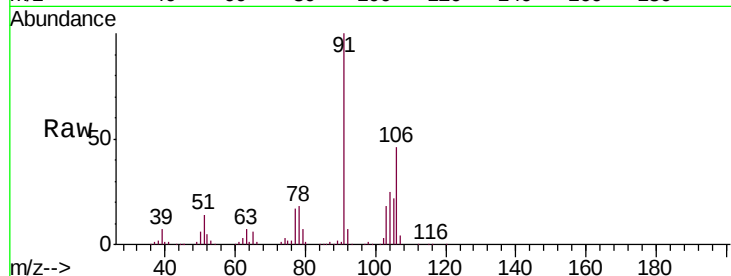
VSTD00501

Tgt Ion:106 Resp: 137780

Ion Ratio Lower Upper

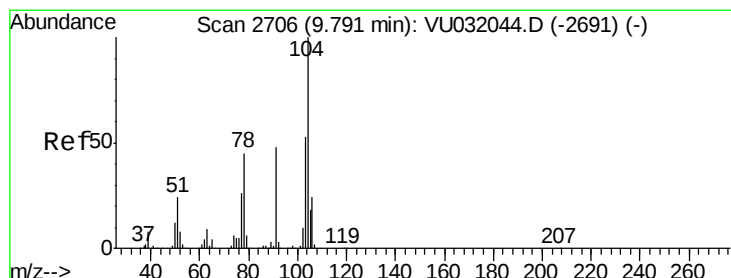
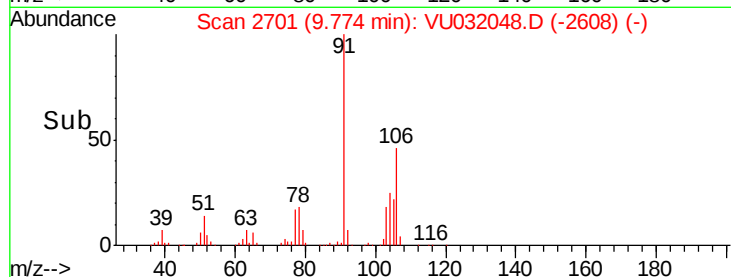
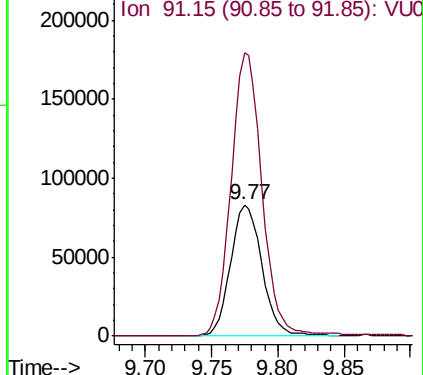
106 100

91 215.9 152.9 283.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.277 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. -0.00 min

Lab File: VU032048.D

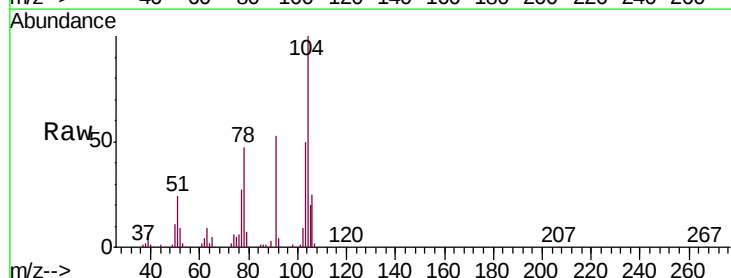
Acq: 16 May 2019 14:43

Tgt Ion:104 Resp: 225264

Ion Ratio Lower Upper

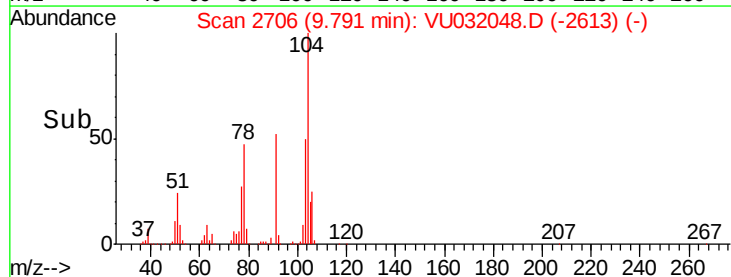
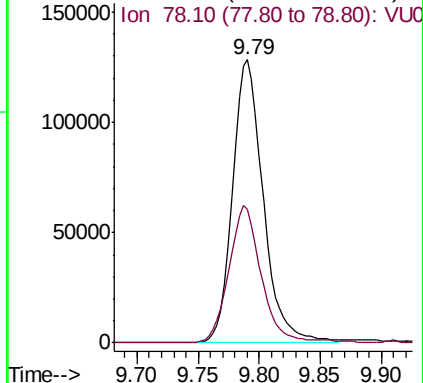
104 100

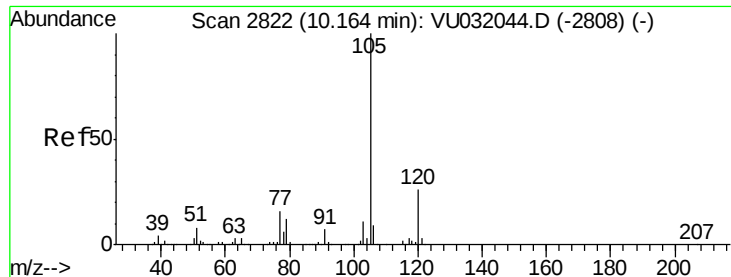
78 47.0 31.2 58.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.344 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

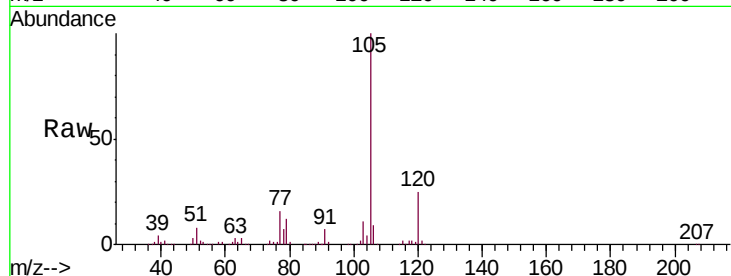
Tgt Ion: 105 Resp: 343825

Ion Ratio Lower Upper

105 100

120 25.5 20.7 31.1

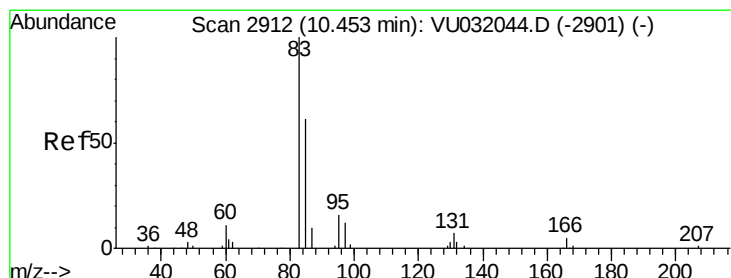
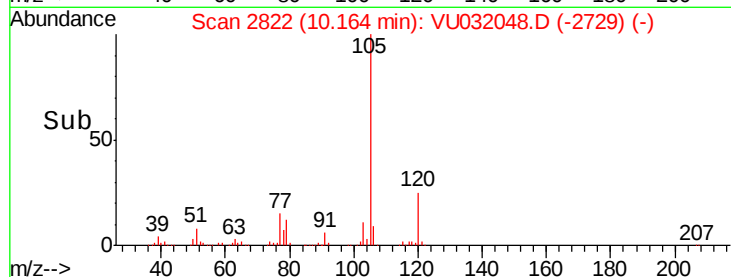
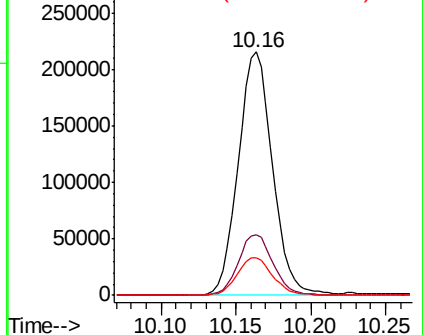
77 16.4 12.3 18.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.011 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

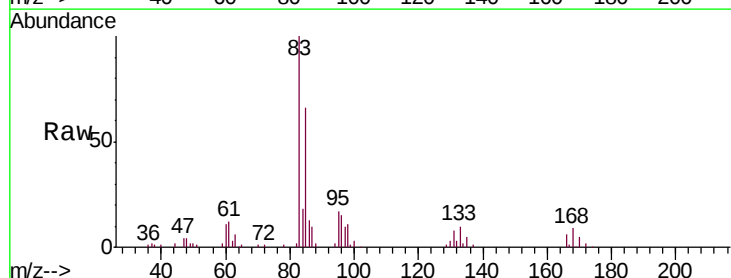
Tgt Ion: 83 Resp: 73894

Ion Ratio Lower Upper

83 100

85 66.1 44.3 82.3

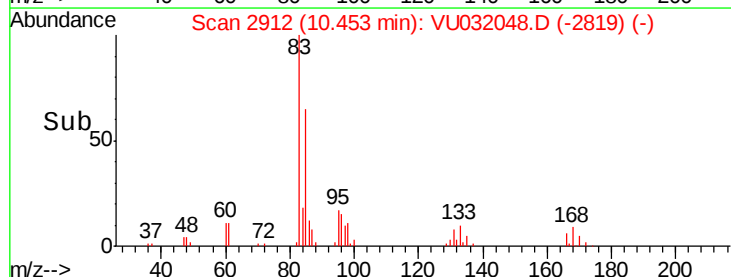
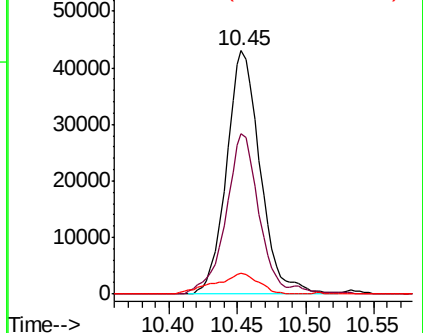
131 8.5 7.4 11.2

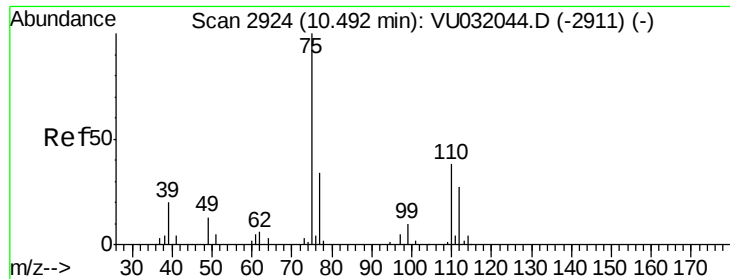


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

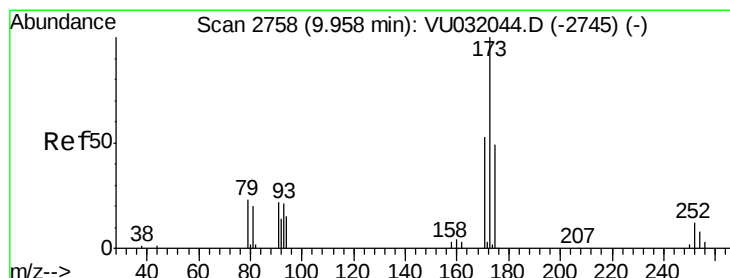
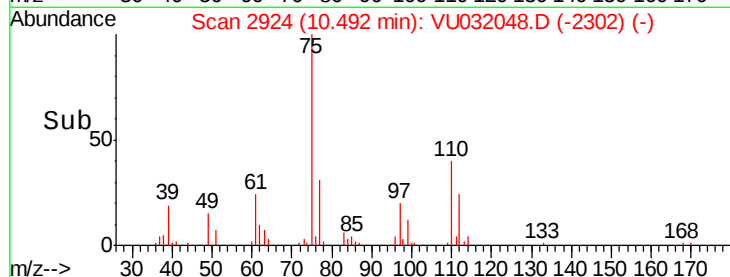
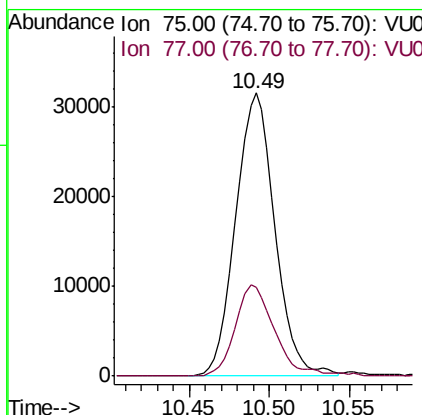
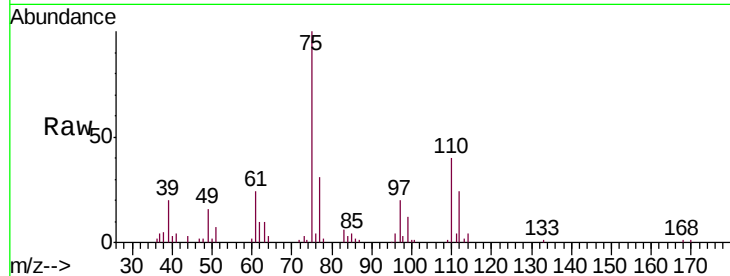




#59
 1,2,3-Trichloropropane
 Concen: 5.183 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

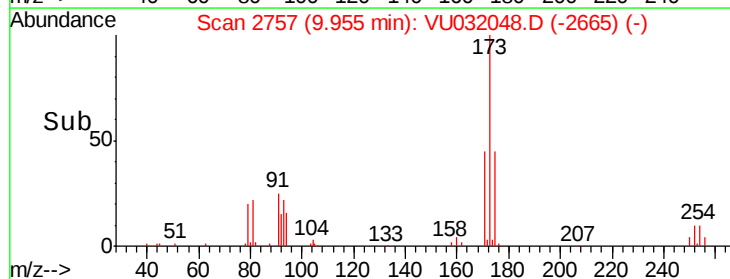
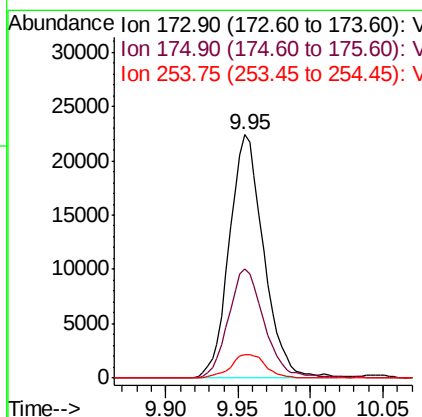
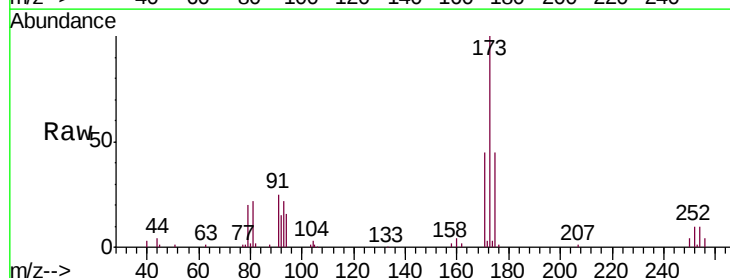
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

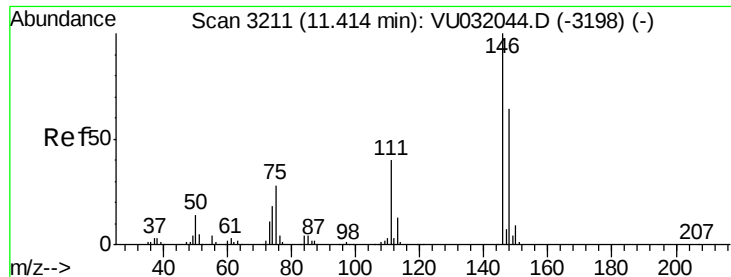
Tgt Ion: 75 Resp: 52670
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.2 39.2



#61
 Bromoform
 Concen: 4.968 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Tgt Ion: 173 Resp: 36917
 Ion Ratio Lower Upper
 173 100
 175 46.4 38.0 57.0
 254 9.8 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.309 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

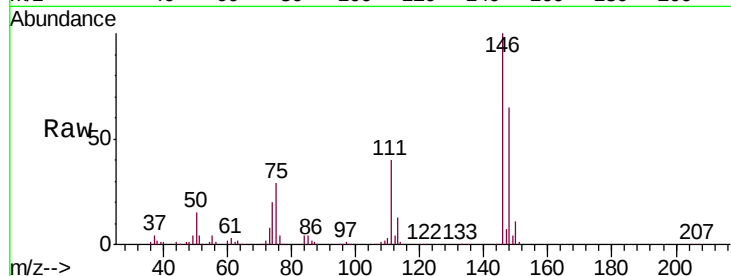
Tgt Ion:146 Resp: 163778

Ion Ratio Lower Upper

146 100

111 39.9 27.7 51.5

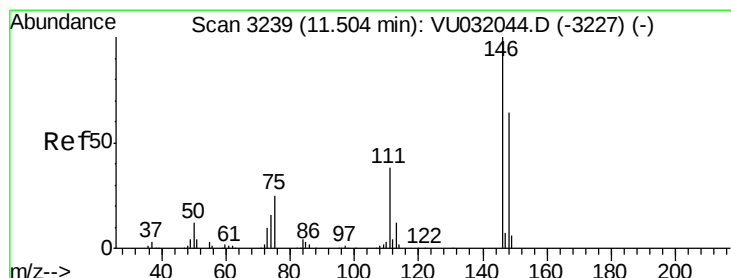
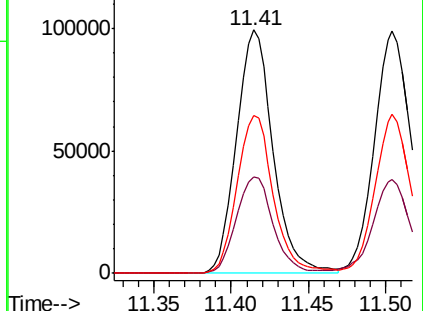
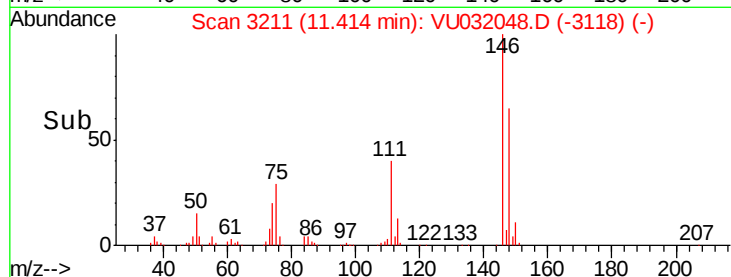
148 64.8 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.069 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

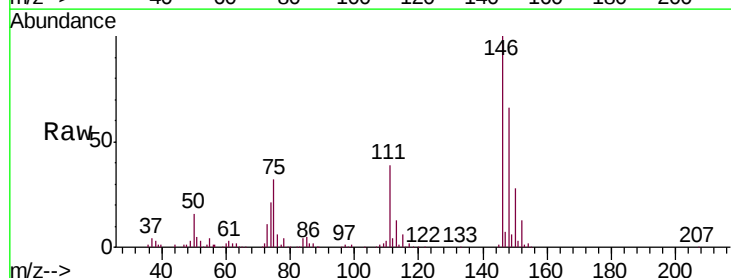
Tgt Ion:146 Resp: 162745

Ion Ratio Lower Upper

146 100

111 38.5 27.1 50.3

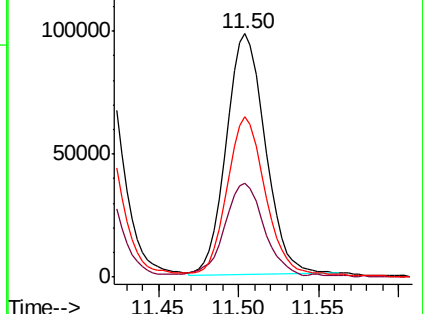
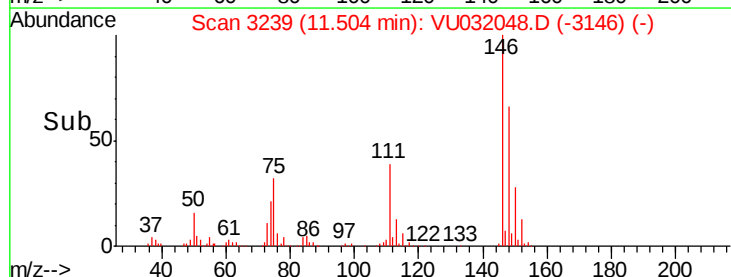
148 65.7 45.4 84.4

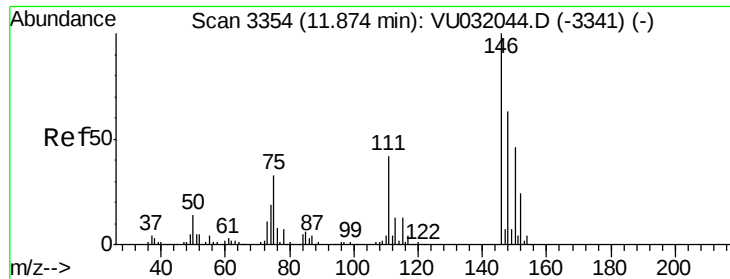


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

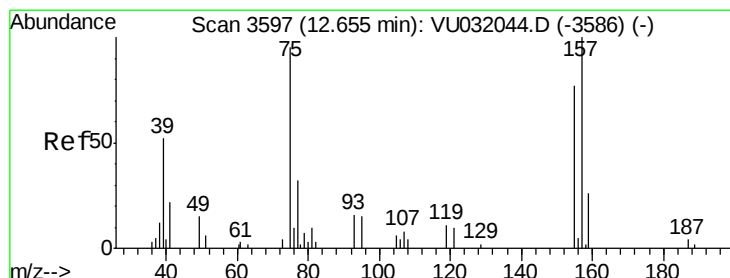
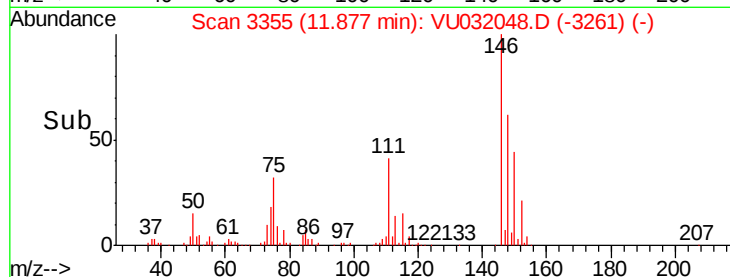
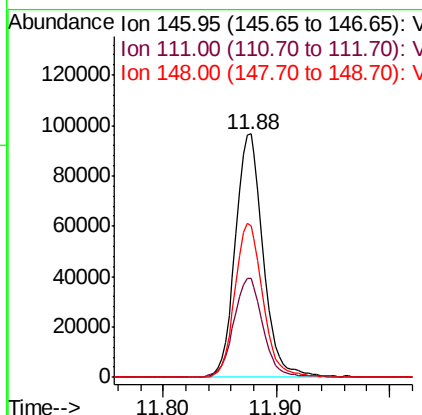
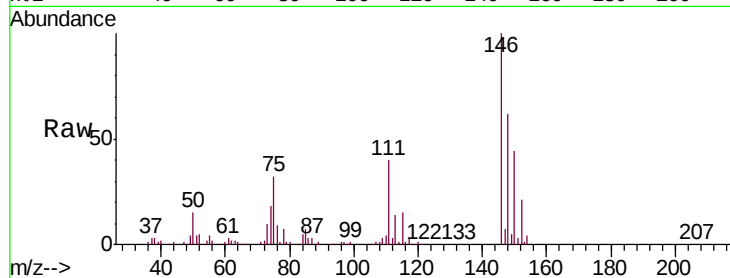




#65
 1,2-Dichlorobenzene
 Concen: 5.274 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

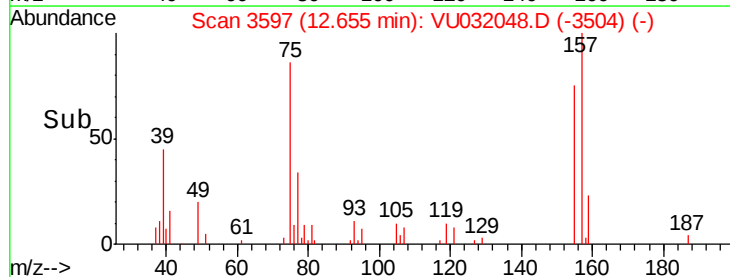
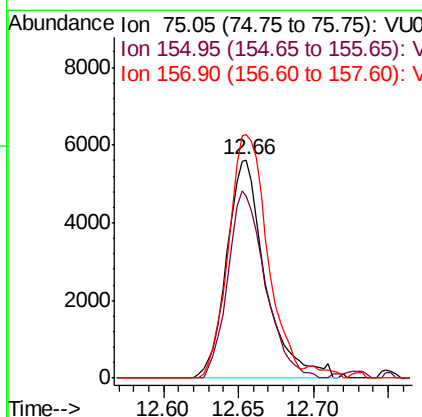
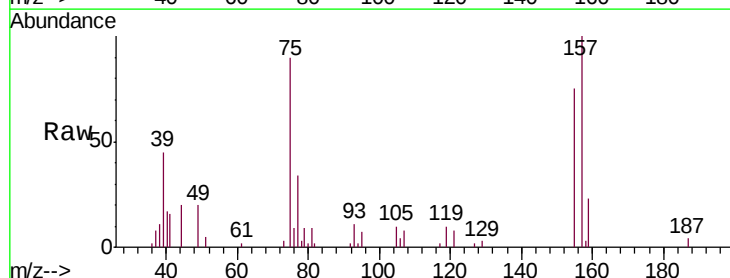
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

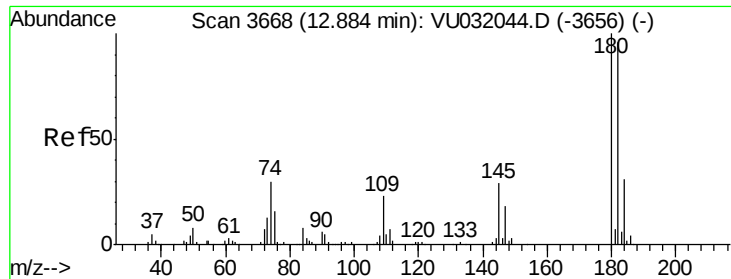
Tgt Ion:146 Resp: 165078
 Ion Ratio Lower Upper
 146 100
 111 40.4 33.5 50.3
 148 62.0 50.2 75.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.930 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Tgt Ion: 75 Resp: 10069
 Ion Ratio Lower Upper
 75 100
 155 83.6 65.0 97.6
 157 111.5 84.3 126.5

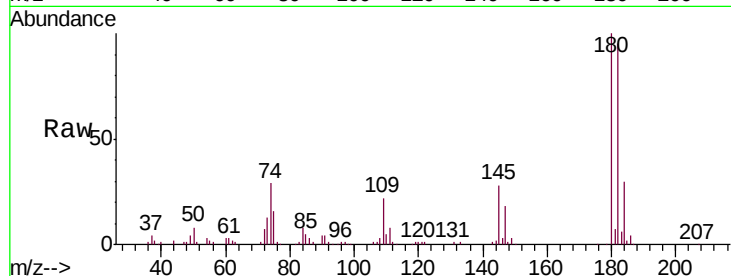




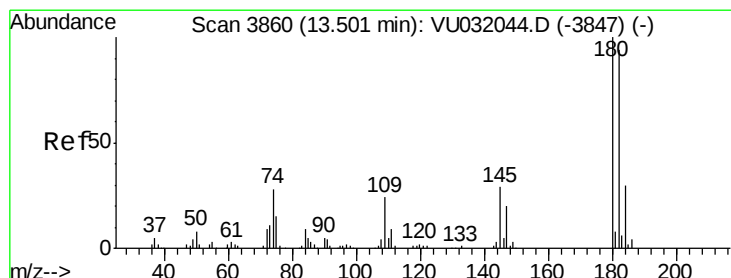
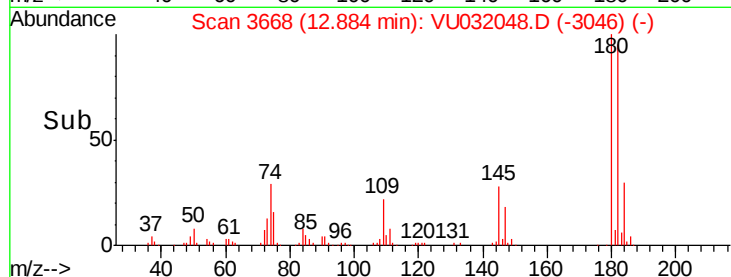
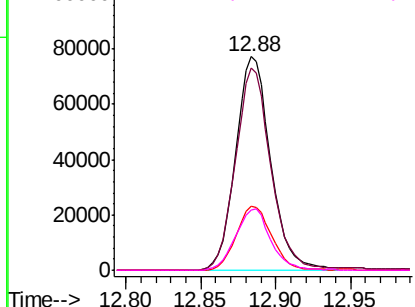
#67
 1,3,5-Trichlorobenzene
 Concen: 5.478 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.3	115.9
184	30.4	24.5	36.7
145	28.8	23.2	34.8

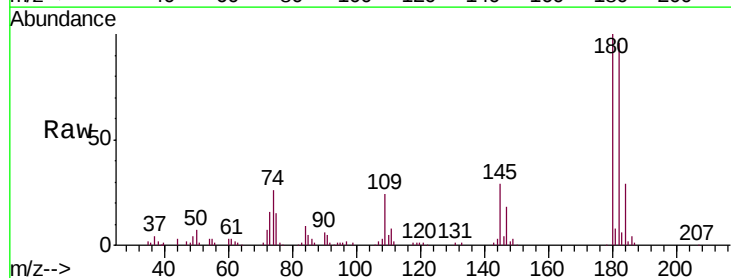


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

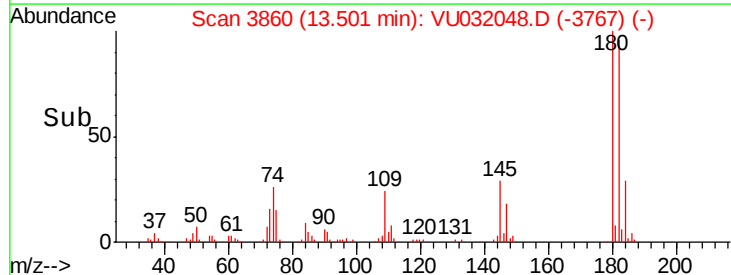
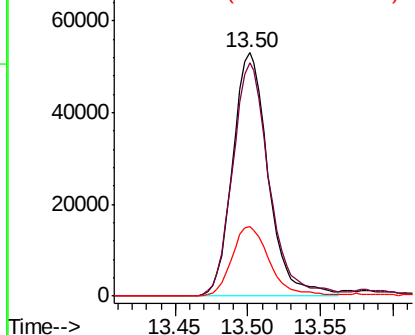


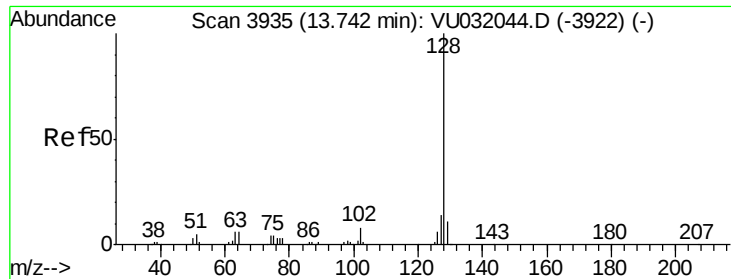
#68
 1,2,4-trichlorobenzene
 Concen: 5.709 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU032048.D
 Acq: 16 May 2019 14:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.5	78.4	117.6
145	30.4	23.5	35.3



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.828 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

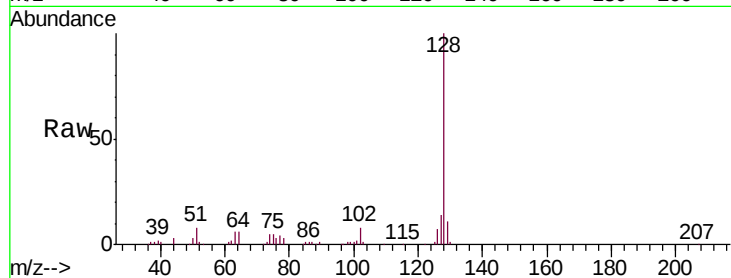
Tgt Ion:128 Resp: 143899

Ion Ratio Lower Upper

128 100

129 10.6 8.0 12.0

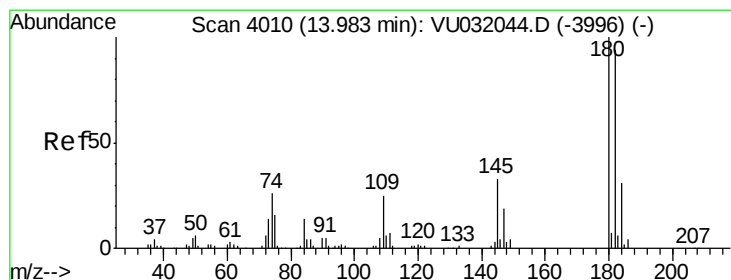
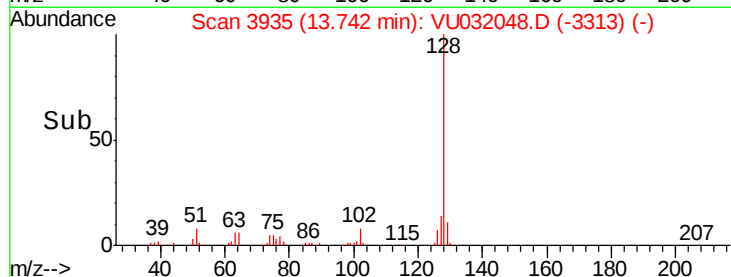
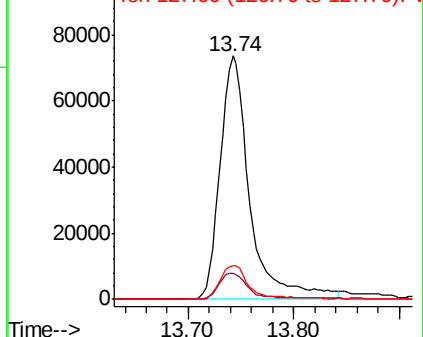
127 13.5 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.769 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU032048.D

Acq: 16 May 2019 14:43

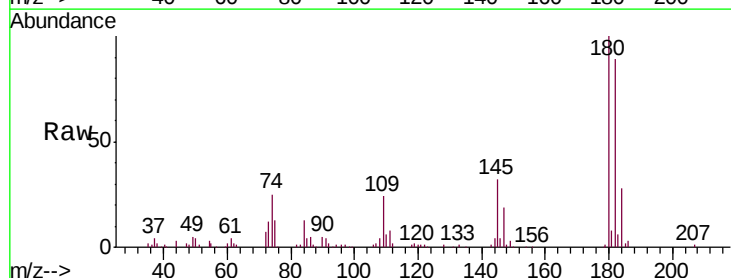
Tgt Ion:180 Resp: 92955

Ion Ratio Lower Upper

180 100

182 91.8 75.3 112.9

145 32.7 25.2 37.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

