

Data File : VU033557.D
Acq On : 02 Aug 2019 09:16
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

Quant Time: Aug 03 00:37:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 12:05:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	293278	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	296056	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	158108	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	90098	42.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.50%
7) Chloroethane-d5	1.67	69	104827	57.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	114.60%
11) 1,1-Dichloroethene-d2	2.26	63	182109	47.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.12%
21) 2-Butanone-d5	4.15	46	165235	117.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	117.00%
24) Chloroform-d	4.62	84	183969	51.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.94%
26) 1,2-Dichloroethane-d4	5.29	65	115550	51.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.10%
32) Benzene-d6	5.32	84	350288	47.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.46%
36) 1,2-Dichloropropane-d6	6.31	67	116594	50.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.36%
41) Toluene-d8	7.55	98	322866	46.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.90%
43) trans-1,3-Dichloropropene-	7.83	79	57556	50.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.86%
47) 2-Hexanone-d5	8.30	63	122497	112.15	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.15%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	187317	52.80	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.60%
64) 1,2-Dichlorobenzene-d4	11.85	152	139333	48.12	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.24%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	150196	54.307 ug/L	98
3) Chloromethane	1.32	50	149206	53.559 ug/L	100
5) Vinyl chloride	1.40	62	162108	54.282 ug/L	98
6) Bromomethane	1.62	94	131682	49.974 ug/L	98
8) Chloroethane	1.69	64	112036	61.739 ug/L	97
9) Trichlorofluoromethane	1.87	101	216945	55.533 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	112040	56.573 ug/L	99
12) 1,1-Dichloroethene	2.27	96	101640	53.517 ug/L	95
13) Acetone	2.32	43	196502	135.997 ug/L	99
14) Carbon disulfide	2.46	76	304662	51.145 ug/L	100
15) Methyl Acetate	2.60	43	130515	56.737 ug/L	100
16) Methylene chloride	2.68	84	120158	55.389 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	108985	54.772 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	337403	55.605 ug/L	100
19) 1,1-Dichloroethane	3.42	63	208810	55.908 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	122009	54.629 ug/L	99
22) 2-Butanone	4.24	43	223677	129.670 ug/L	98

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Quant Time: Aug 03 00:37:03 2019
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Quant Title : VOC Analysis
QLast Update : Fri Aug 02 12:05:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	64582	55.421	ug/L	99
25) Chloroform	4.65	83	217183	55.257	ug/L	100
27) 1,2-Dichloroethane	5.38	62	170321	56.277	ug/L	99
29) Cyclohexane	4.97	56	173015	53.577	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	183799	53.956	ug/L	100
31) Carbon tetrachloride	5.11	117	162881	54.906	ug/L	100
33) Benzene	5.37	78	463808	54.305	ug/L	100
34) Trichloroethene	6.16	95	119512	53.048	ug/L	98
35) Methylcyclohexane	6.40	83	192912	54.872	ug/L	100
37) 1,2-Dichloropropane	6.41	63	126357	55.271	ug/L	100
38) Bromodichloromethane	6.74	83	163222	55.229	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	192358	53.909	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	362004	114.689	ug/L	99
42) Toluene	7.62	91	509163	55.442	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	177344	54.996	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	119573	55.095	ug/L	98
46) Tetrachloroethene	8.21	164	98172	53.375	ug/L	99
48) 2-Hexanone	8.35	43	309085	121.146	ug/L	99
49) Dibromochloromethane	8.46	129	136126	55.129	ug/L	99
50) 1,2-Dibromoethane	8.57	107	130520	54.292	ug/L	98
51) Chlorobenzene	9.10	112	321363	53.449	ug/L	100
52) Ethylbenzene	9.23	91	539575	54.562	ug/L	99
53) m,p-Xylene	9.36	106	208987	55.048	ug/L	99
54) o-xylene	9.76	106	202994	55.121	ug/L	96
55) Styrene	9.77	104	355071	56.768	ug/L	100
56) Isopropylbenzene	10.15	105	529856	55.065	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	213761	54.608	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	166687	55.239	ug/L	100
61) Bromoform	9.94	173	103551	54.219	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	262195	53.997	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	266499	52.828	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	265998	54.179	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	50096	55.227	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	201235	51.370	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	173263	51.762	ug/L	99
69) Naphthalene	13.73	128	517586	53.895	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	186903	53.093	ug/L	100

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

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```
ALS Vial      : 2      Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

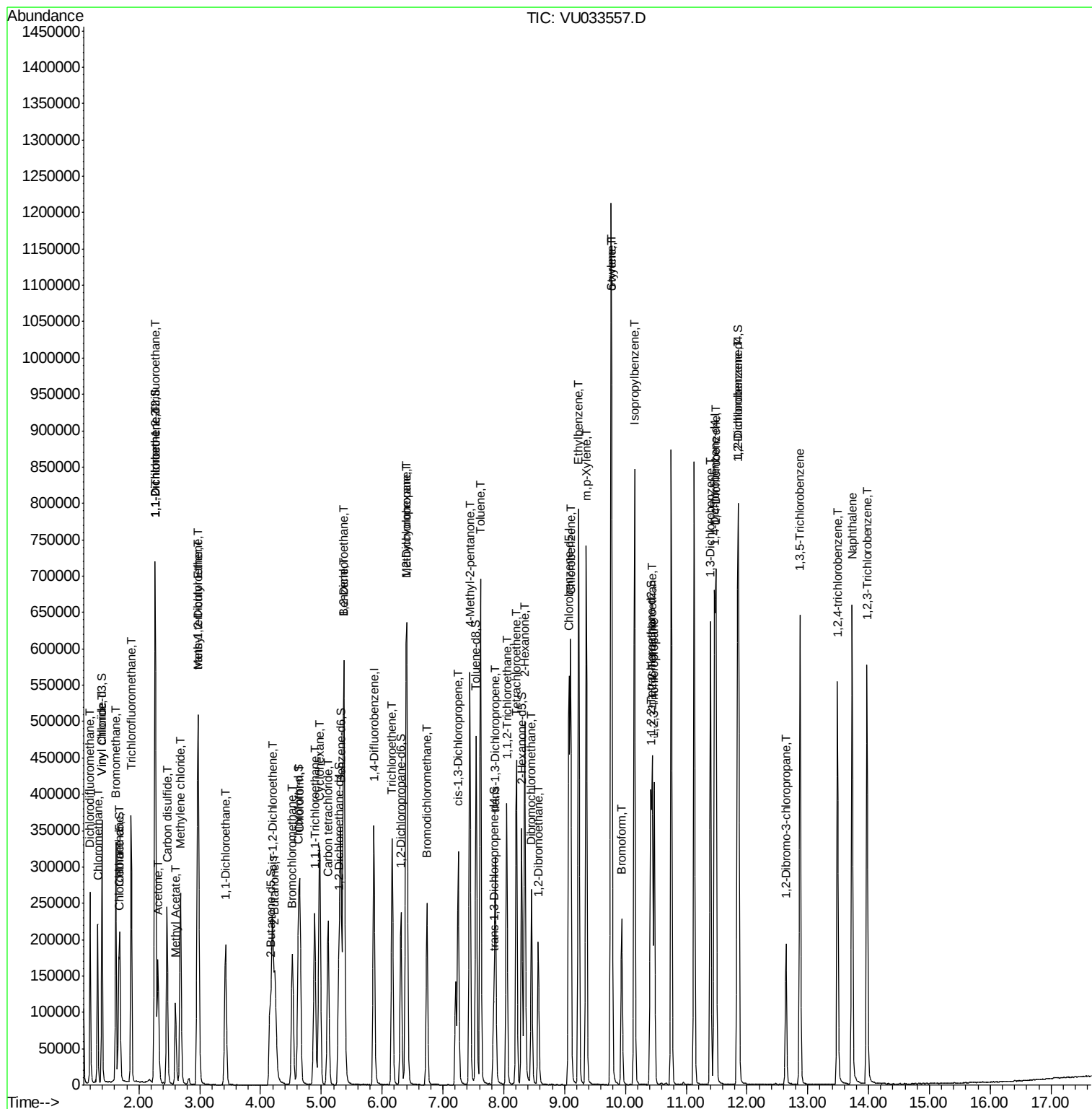
Quant Time: Aug 03 00:37:03 2019

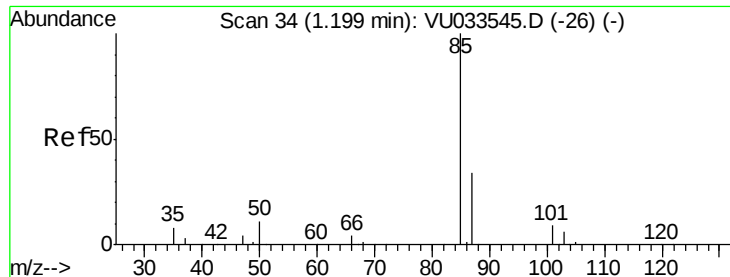
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMULM073119WMA.M

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QLast Update : Fri Aug 02 12:05:52 2019

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#2

Dichlorodifluoromethane

Concen: 54.307 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

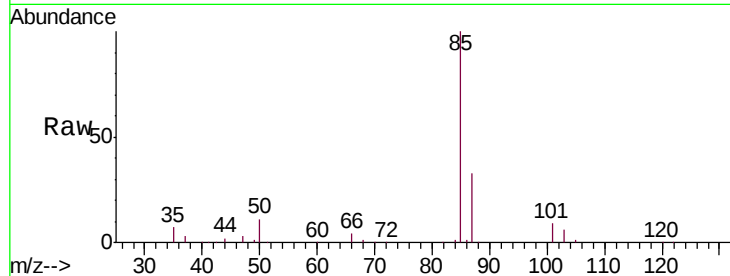
VSTD05046

Tgt Ion: 85 Resp: 150196

Ion Ratio Lower Upper

85 100

87 32.8 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033545.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033545.D (-26) (-)

1.20

150000

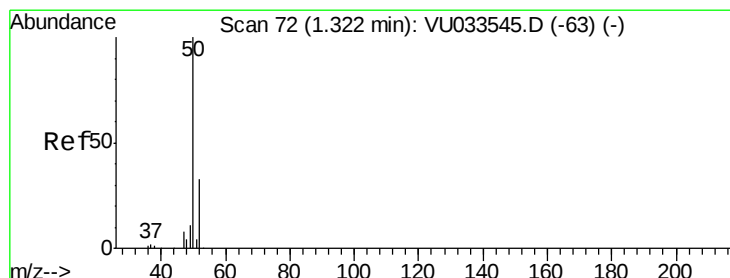
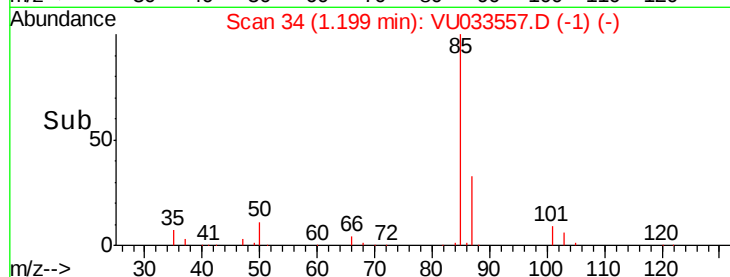
100000

50000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 53.559 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033557.D

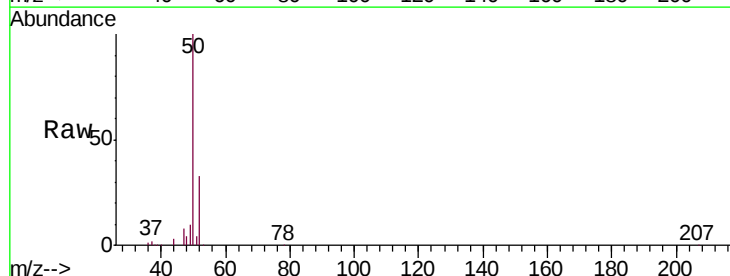
Acq: 02 Aug 2019 09:16

Tgt Ion: 50 Resp: 149206

Ion Ratio Lower Upper

50 100

52 33.1 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033545.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033545.D (-63) (-)

1.32

150000

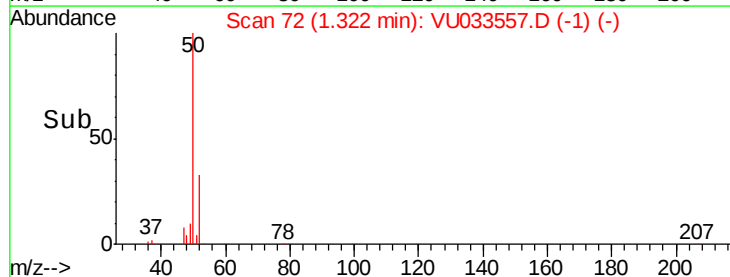
100000

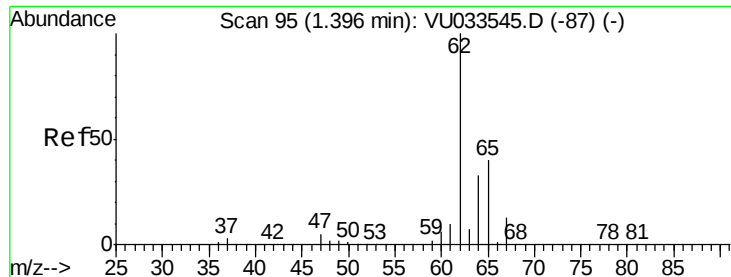
50000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 54.282 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

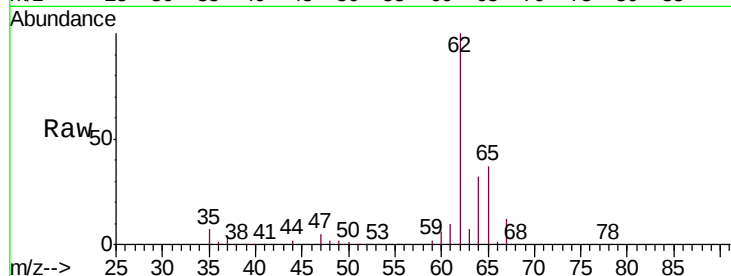
VSTD05046

Tgt Ion: 62 Resp: 162108

Ion Ratio Lower Upper

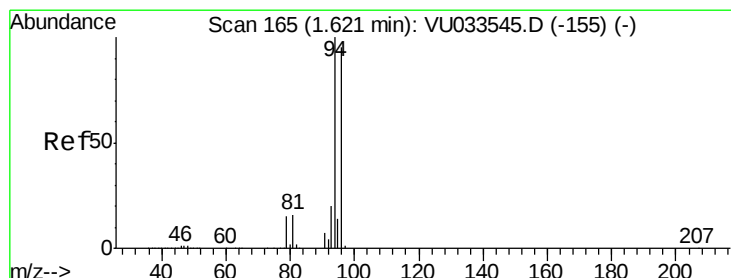
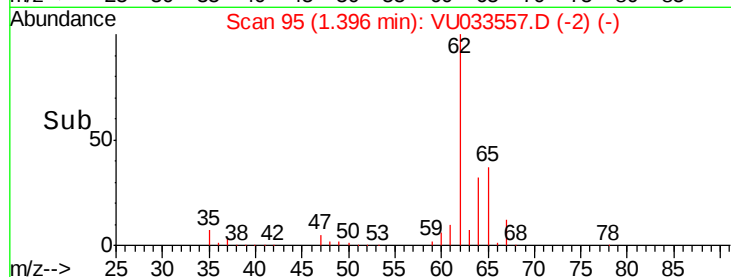
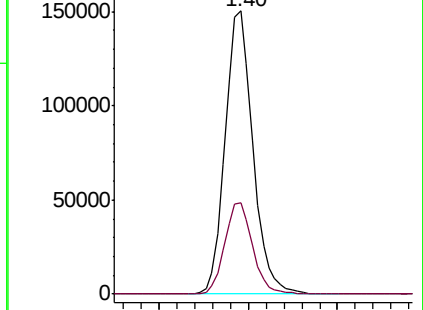
62 100

64 32.1 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU033545.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033545.D (-87) (-)



#6

Bromomethane

Concen: 49.974 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033557.D

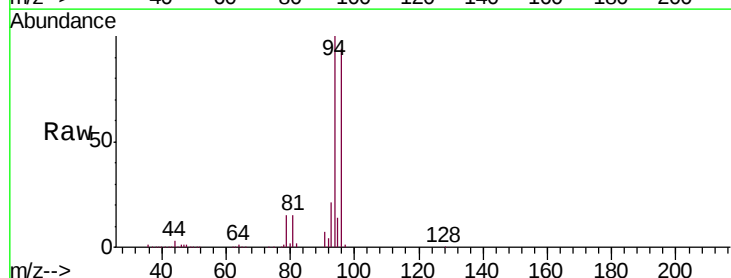
Acq: 02 Aug 2019 09:16

Tgt Ion: 94 Resp: 131682

Ion Ratio Lower Upper

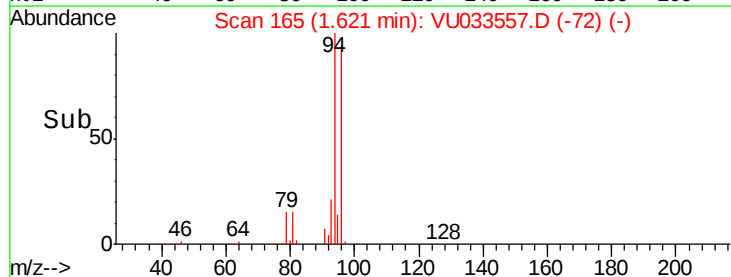
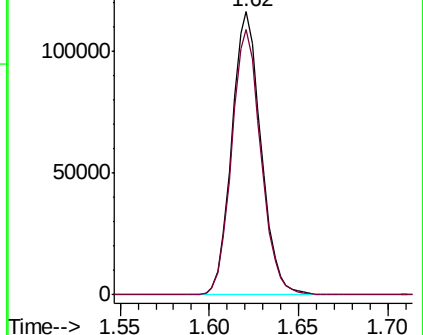
94 100

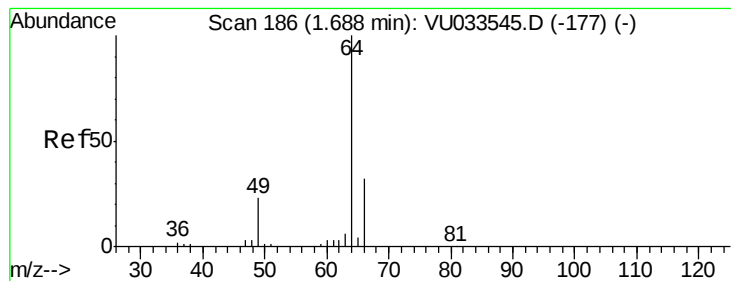
96 94.0 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033545.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033545.D (-155) (-)





#8

Chloroethane

Concen: 61.739 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

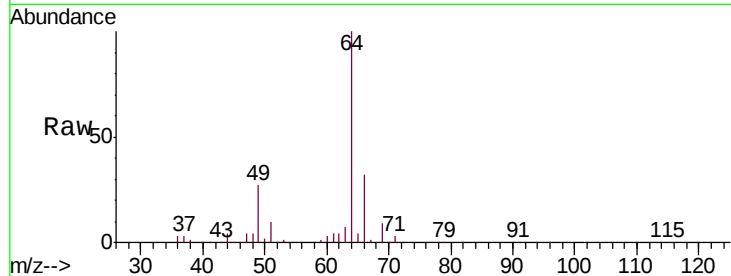
VSTD05046

Tgt Ion: 64 Resp: 112036

Ion Ratio Lower Upper

64 100

66 32.0 21.1 39.3



Abundance Ion 64.00 (63.70 to 64.70): VU033545.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU033545.D (-177) (-)

1.69

100000

80000

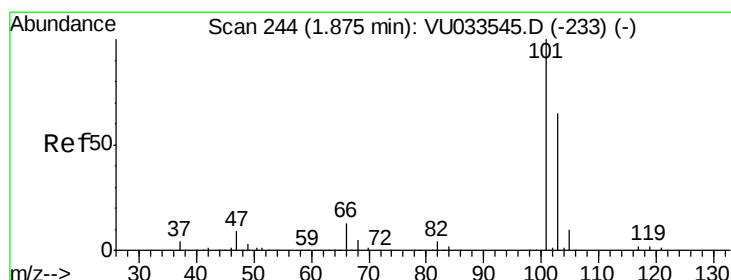
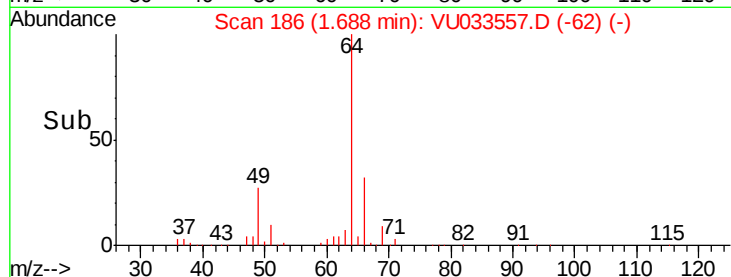
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 55.533 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033557.D

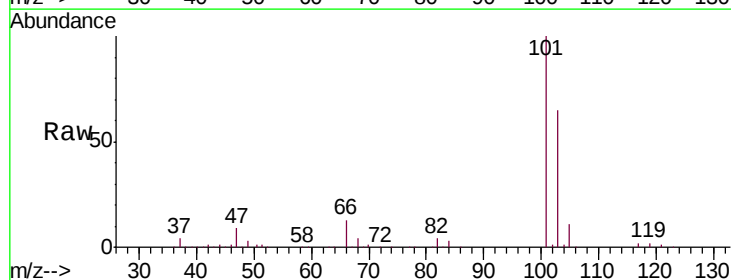
Acq: 02 Aug 2019 09:16

Tgt Ion: 101 Resp: 216945

Ion Ratio Lower Upper

101 100

103 64.7 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU033545.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033545.D (-233) (-)

1.87

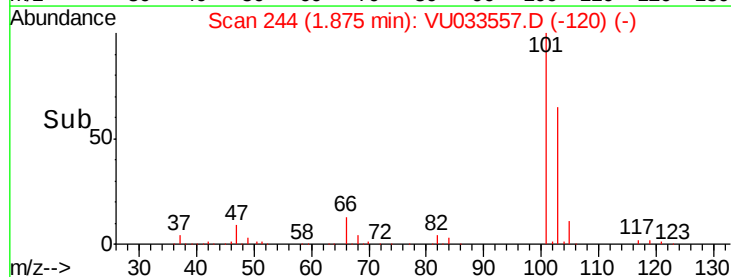
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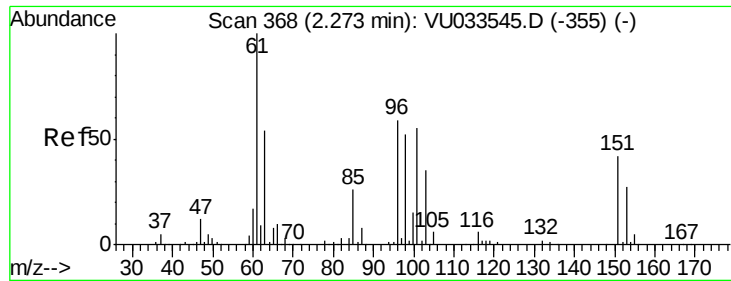
100000

50000

0

Time-->





#10

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

Concen: 56.573 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

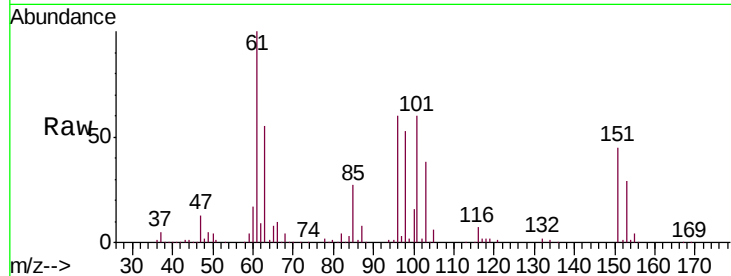
Tgt Ion:101 Resp: 112040

Ion Ratio Lower Upper

101 100

85 43.6 35.8 53.8

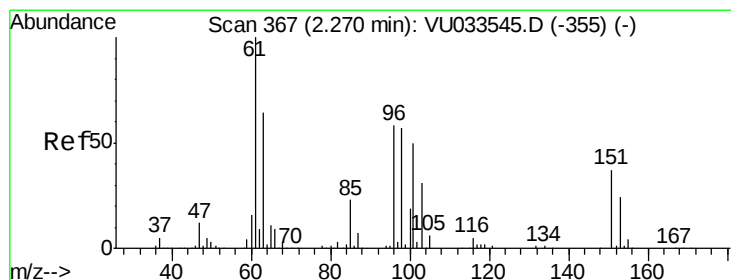
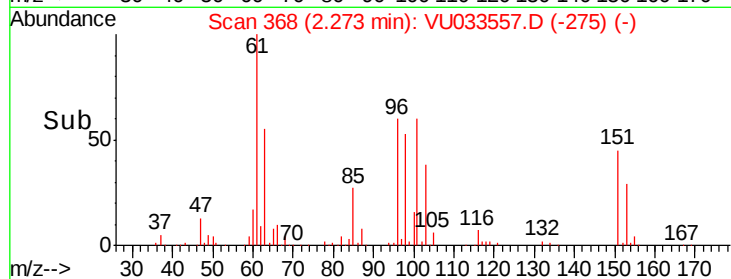
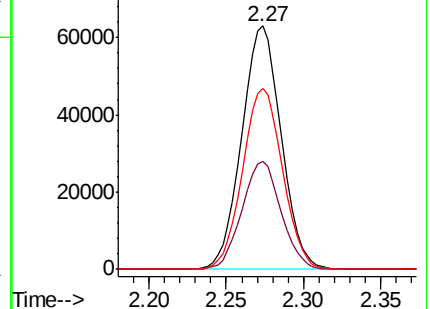
151 75.1 60.1 90.1



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: 53.517 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

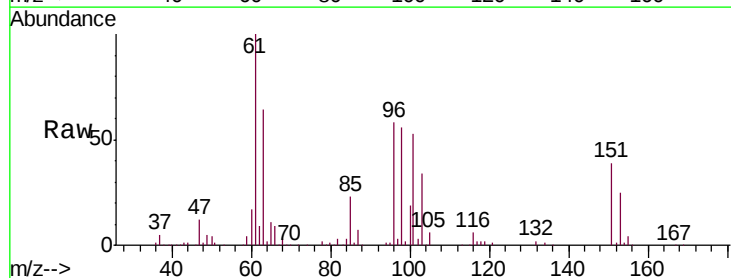
Tgt Ion: 96 Resp: 101640

Ion Ratio Lower Upper

96 100

61 171.7 119.3 221.5

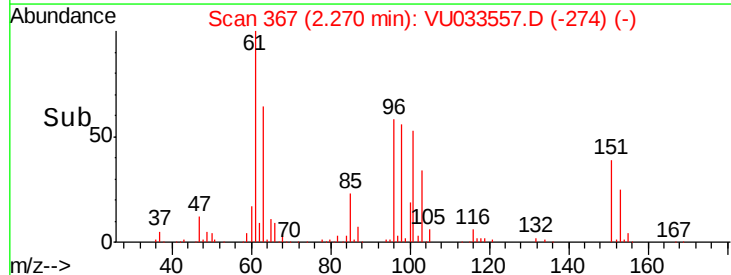
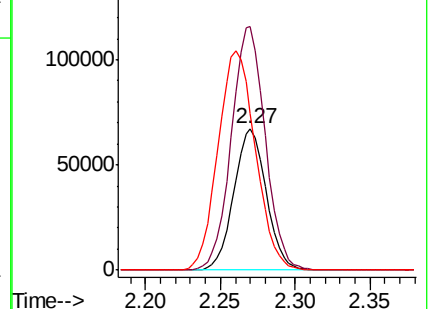
63 110.7 86.6 160.8

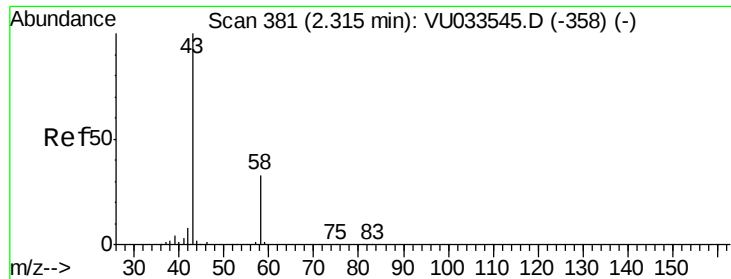


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 135.997 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

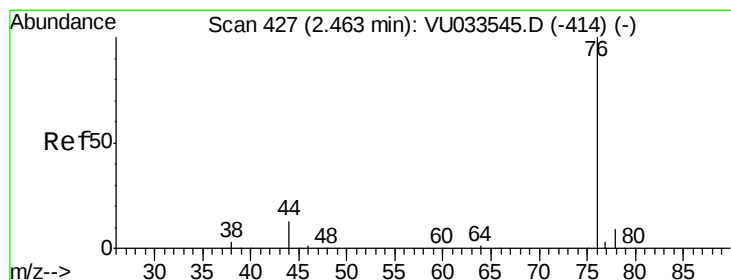
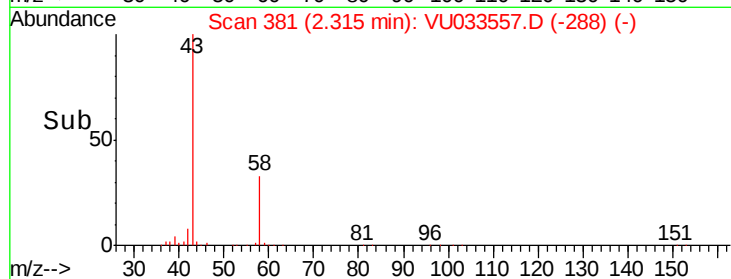
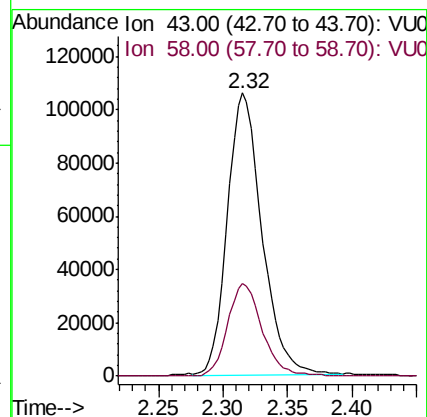
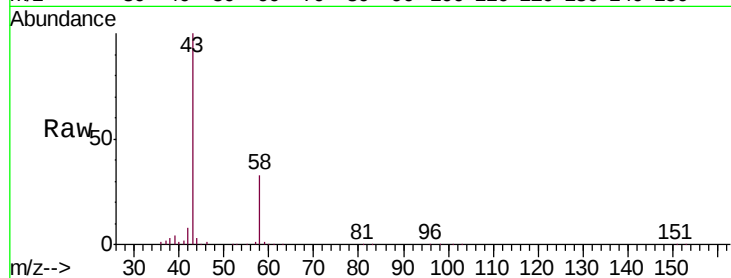
VSTD05046

Tgt Ion: 43 Resp: 196502

Ion Ratio Lower Upper

43 100

58 32.5 0.0 66.2



#14

Carbon disulfide

Concen: 51.145 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033557.D

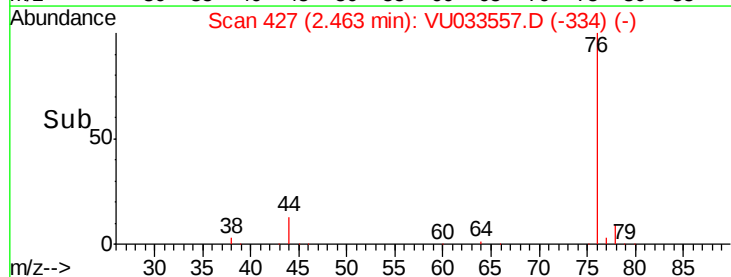
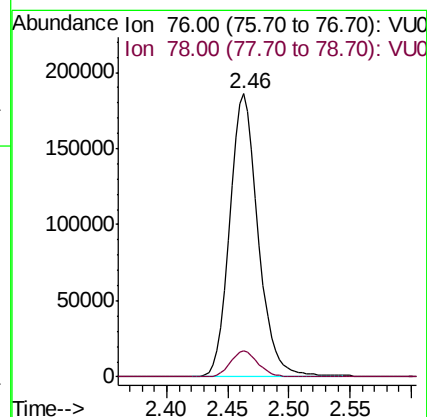
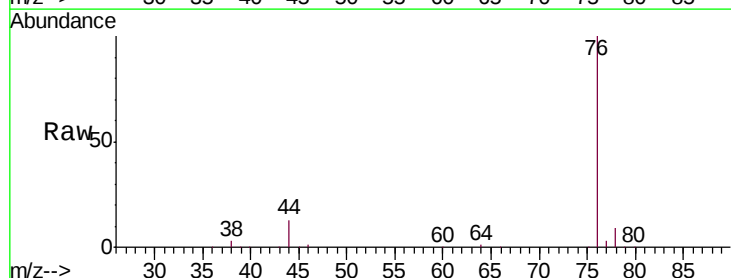
Acq: 02 Aug 2019 09:16

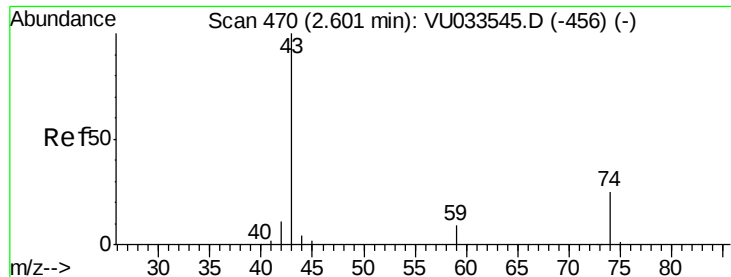
Tgt Ion: 76 Resp: 304662

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0





#15

Methyl Acetate

Concen: 56.737 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

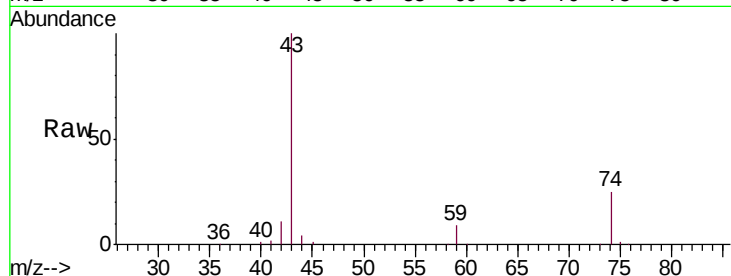
VSTD05046

Tgt Ion: 43 Resp: 130515

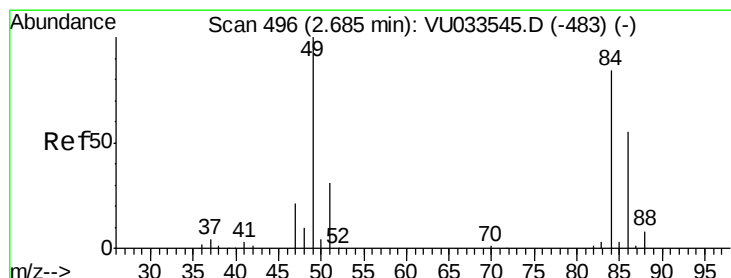
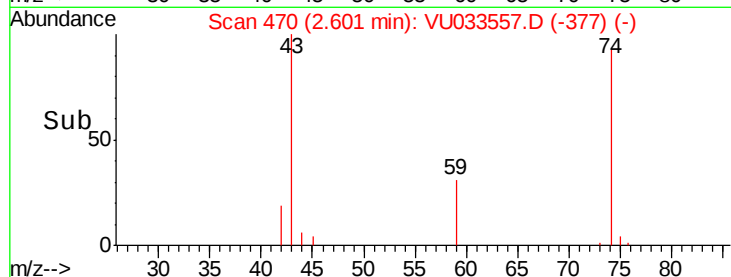
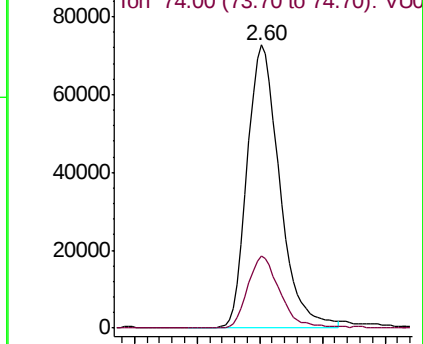
Ion Ratio Lower Upper

43 100

74 25.3 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VU033557.D (-377) (-)



#16

Methylene chloride

Concen: 55.389 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

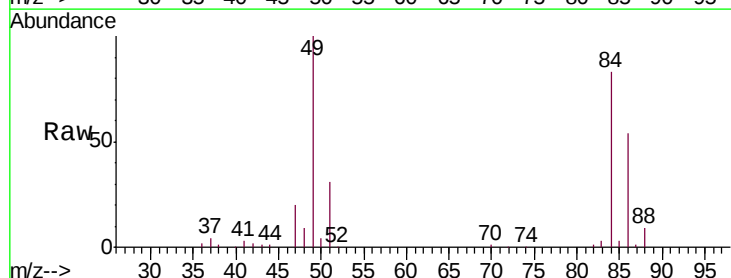
Tgt Ion: 84 Resp: 120158

Ion Ratio Lower Upper

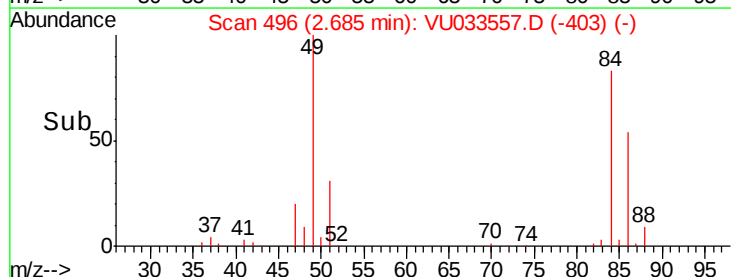
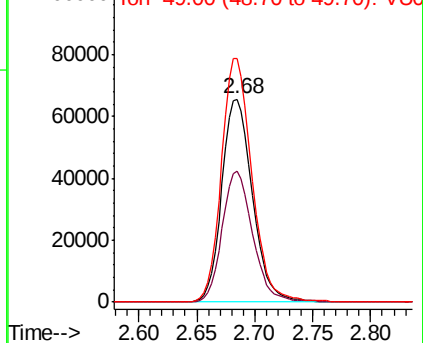
84 100

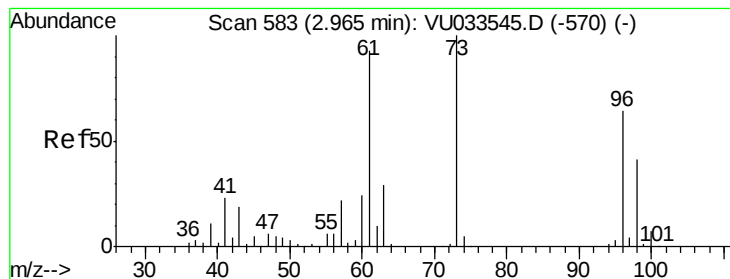
86 64.7 45.7 84.9

49 119.8 85.0 158.0



Abundance Ion 84.00 (83.70 to 84.70): VU033557.D (-403) (-)





#17

trans-1,2-Dichloroethene

Concen: 54.772 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

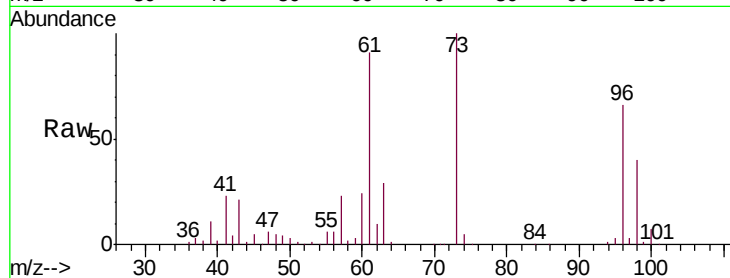
Tgt Ion: 96 Resp: 108985

Ion Ratio Lower Upper

96 100

61 138.7 98.3 182.5

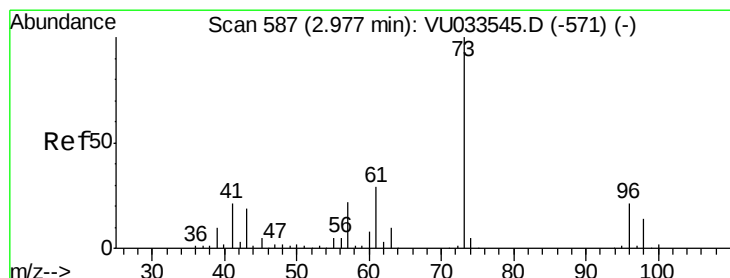
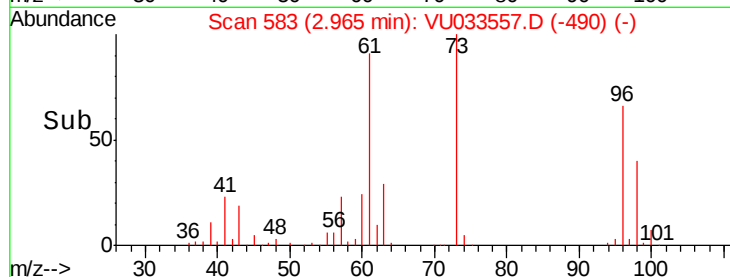
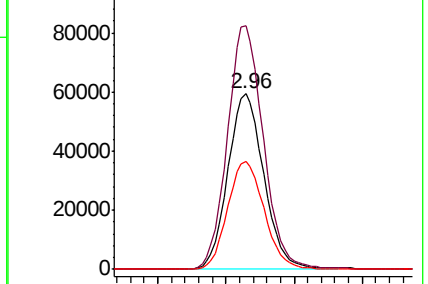
98 61.2 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU033545.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033545.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033545.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 55.605 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

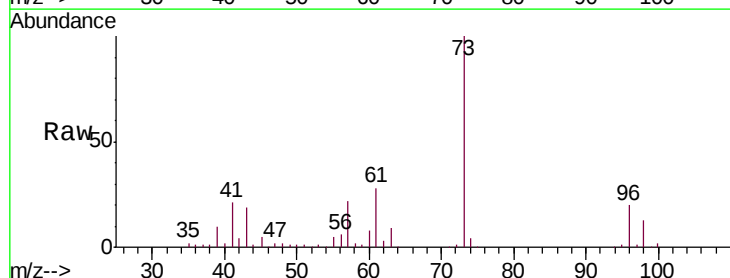
Tgt Ion: 73 Resp: 337403

Ion Ratio Lower Upper

73 100

43 19.6 15.4 23.2

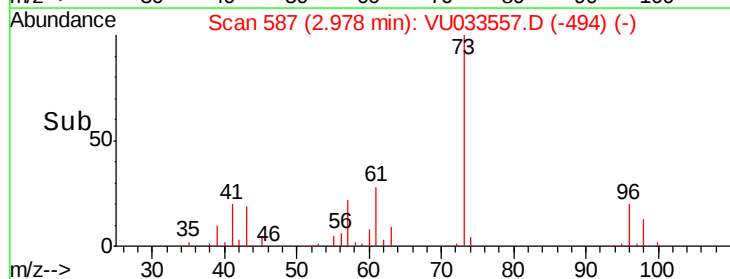
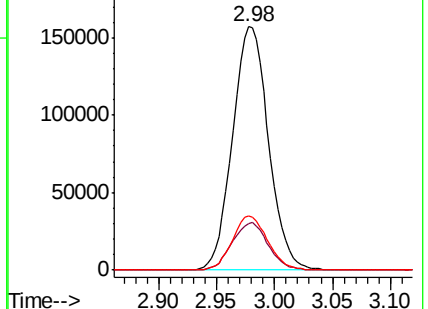
57 21.8 17.4 26.2

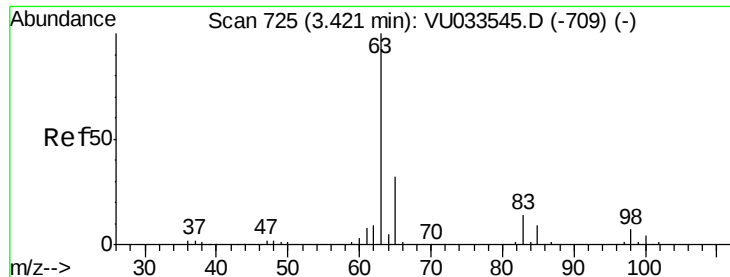


Abundance Ion 73.00 (72.70 to 73.70): VU033545.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033545.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033545.D (-571) (-)

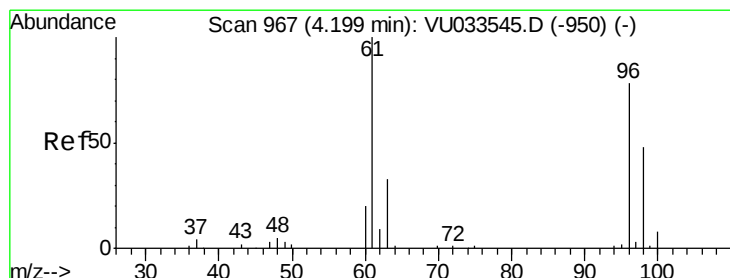
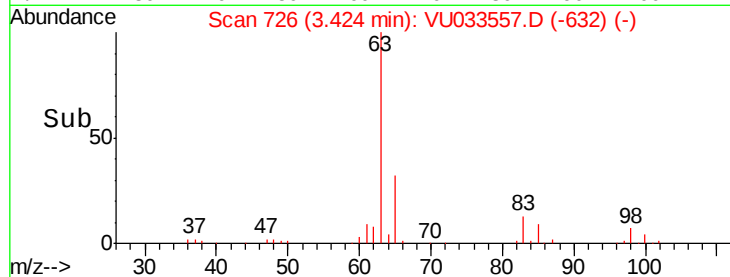
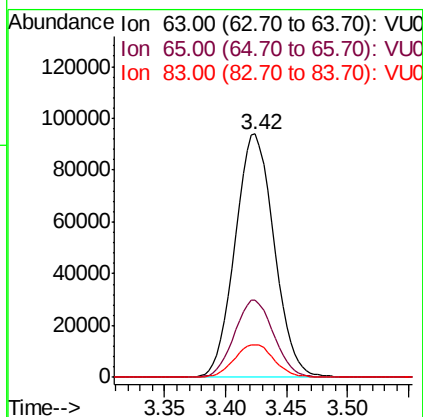
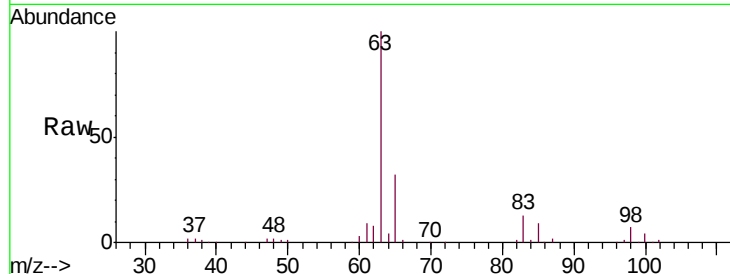




#19
 1,1-Dichloroethane
 Concen: 55.908 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

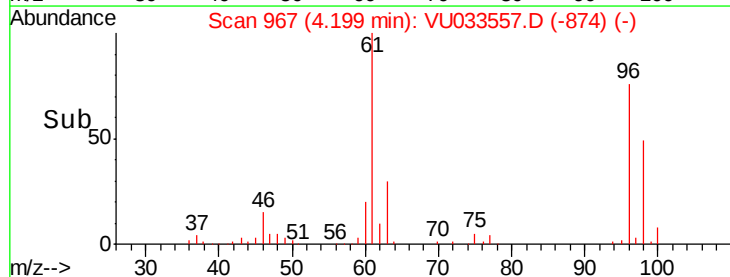
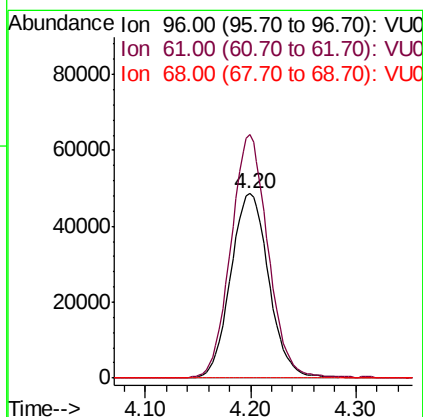
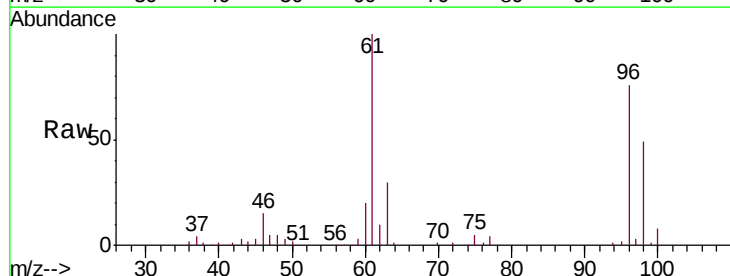
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

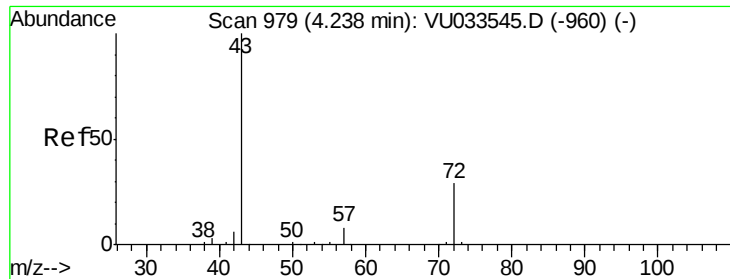
Tgt Ion: 63 Resp: 208810
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.0 40.8
 83 13.3 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 54.629 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

Tgt Ion: 96 Resp: 122009
 Ion Ratio Lower Upper
 96 100
 61 132.0 91.3 169.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 129.670 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

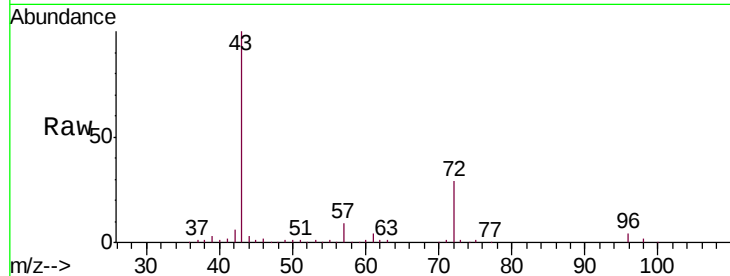
VSTD05046

Tgt Ion: 43 Resp: 223677

Ion Ratio Lower Upper

43 100

72 29.7 14.2 42.6



Abundance Ion 43.00 (42.70 to 43.70): VU033545.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU033545.D (-960) (-)

4.24

80000

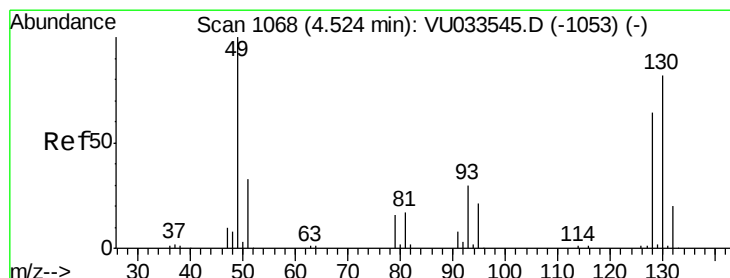
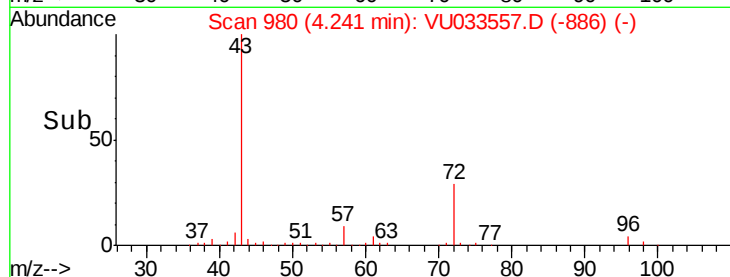
60000

40000

20000

0

Time--> 4.10 4.20 4.30 4.40



#23

Bromochloromethane

Concen: 55.421 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Tgt Ion: 128 Resp: 64582

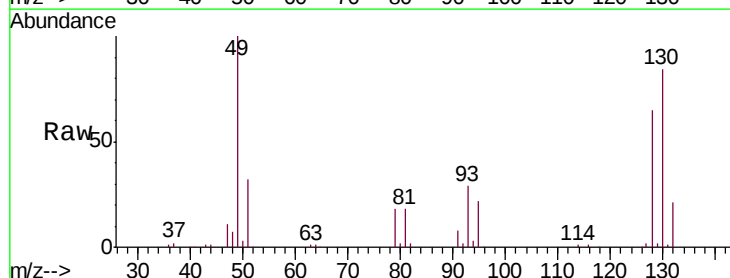
Ion Ratio Lower Upper

128 100

49 154.7 108.4 201.2

130 129.8 89.7 166.5

51 48.9 38.9 58.3



Abundance Ion 128.00 (127.70 to 128.70): VU033545.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033545.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033545.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033545.D (-1053) (-)

4.52

60000

50000

40000

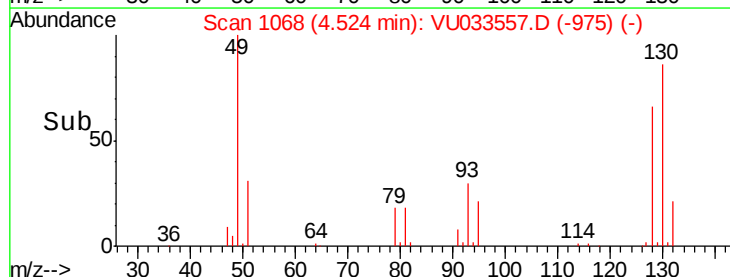
30000

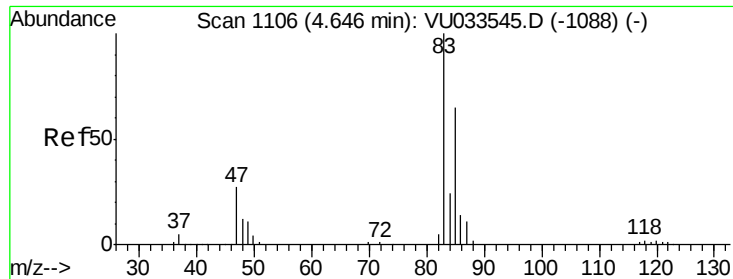
20000

10000

0

Time--> 4.40 4.50 4.60

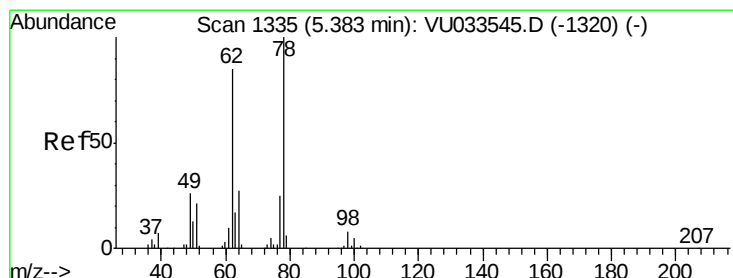
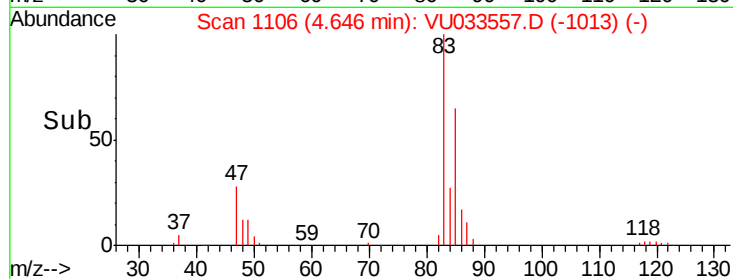
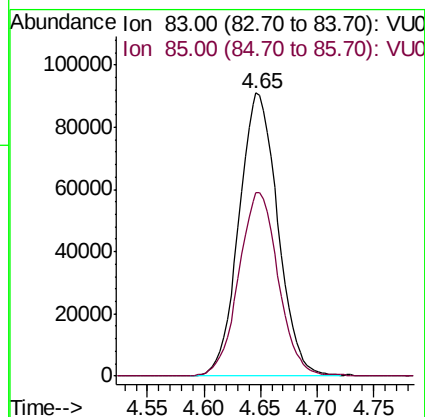
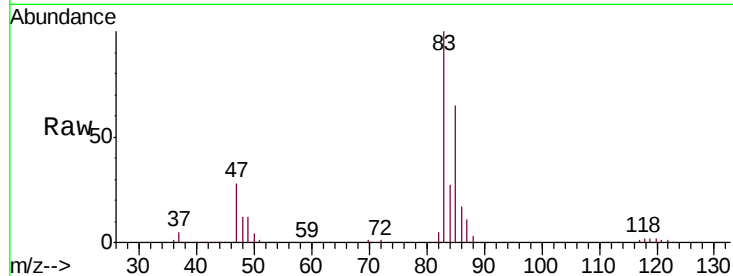




#25
Chloroform
Concen: 55.257 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033557.D
Acq: 02 Aug 2019 09:16

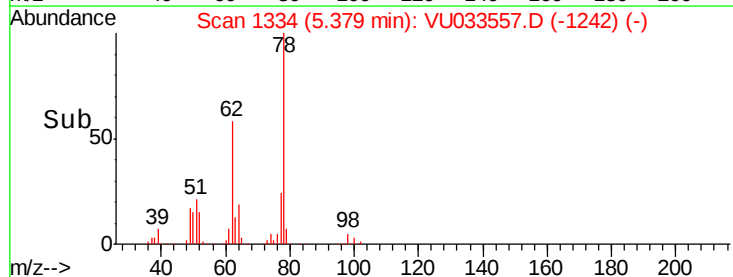
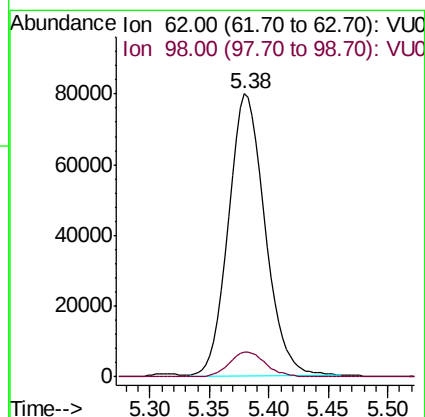
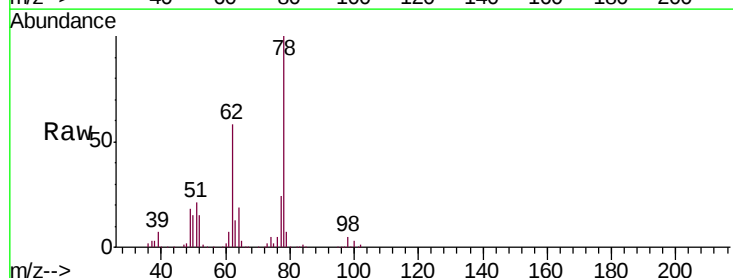
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

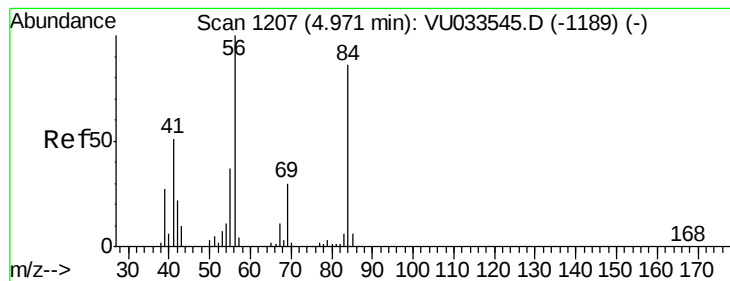
Tgt Ion: 83 Resp: 217183
Ion Ratio Lower Upper
83 100
85 64.9 45.6 84.8



#27
1,2-Dichloroethane
Concen: 56.277 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033557.D
Acq: 02 Aug 2019 09:16

Tgt Ion: 62 Resp: 170321
Ion Ratio Lower Upper
62 100
98 8.7 7.2 10.8





#29

Cyclohexane

Concen: 53.577 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

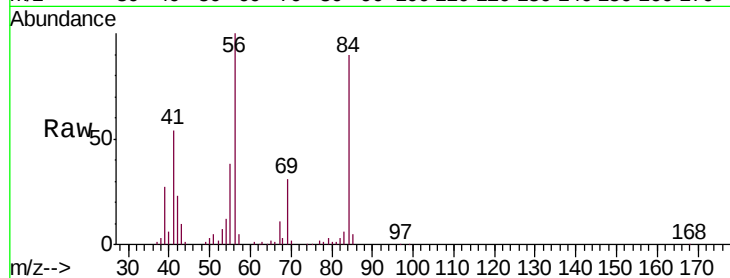
Tgt Ion: 56 Resp: 173015

Ion Ratio Lower Upper

56 100

69 30.4 25.0 37.6

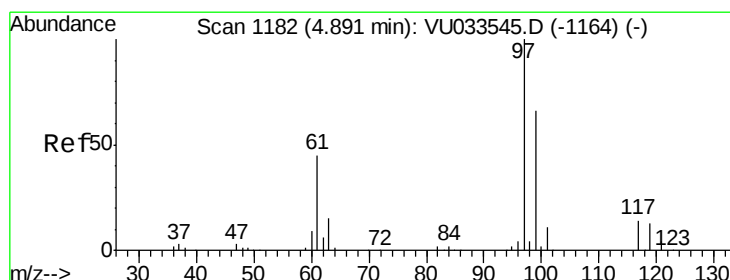
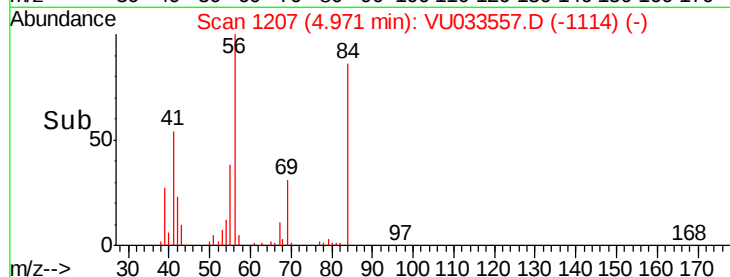
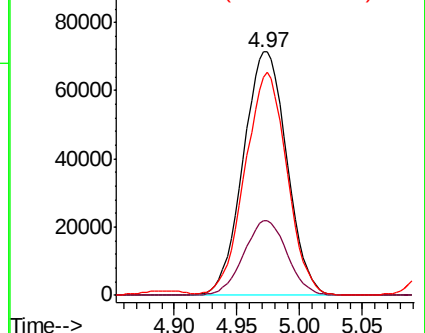
84 88.5 71.6 107.4



Abundance Ion 56.00 (55.70 to 56.70): VU033557.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU033557.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU033557.D (-1114) (-)



#30

1,1,1-Trichloroethane

Concen: 53.956 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

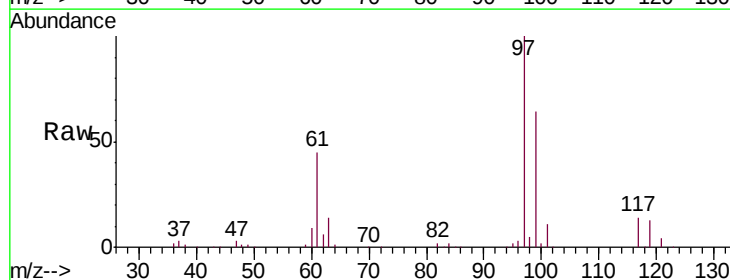
Tgt Ion: 97 Resp: 183799

Ion Ratio Lower Upper

97 100

99 64.5 51.1 76.7

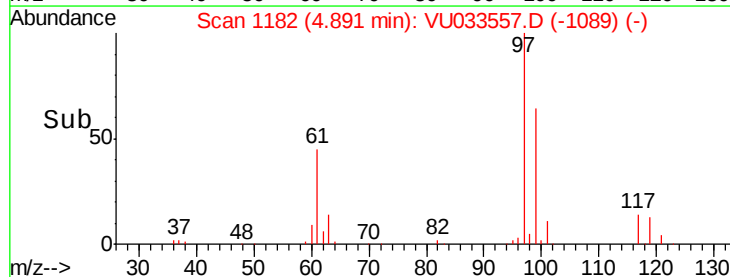
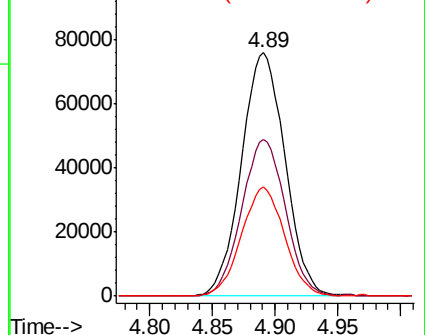
61 44.3 35.5 53.3

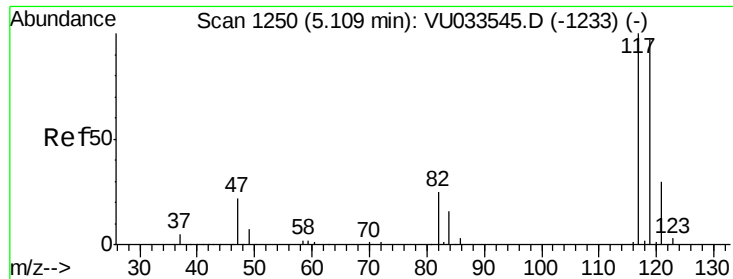


Abundance Ion 97.00 (96.70 to 97.70): VU033557.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033557.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033557.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 54.906 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

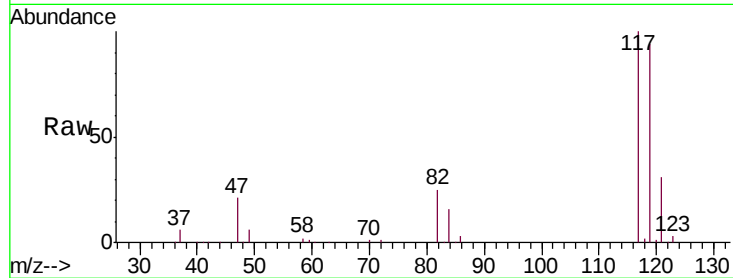
VSTD05046

Tgt Ion:117 Resp: 162881

Ion Ratio Lower Upper

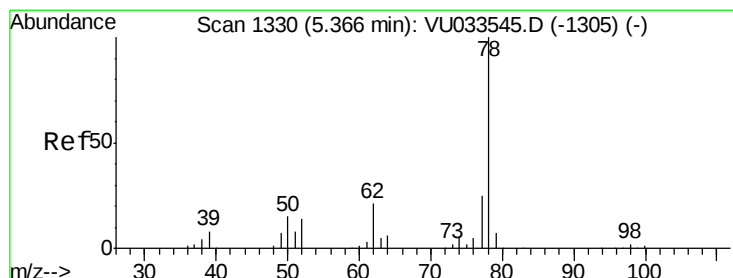
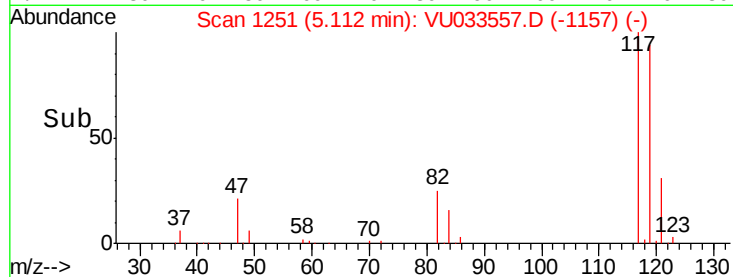
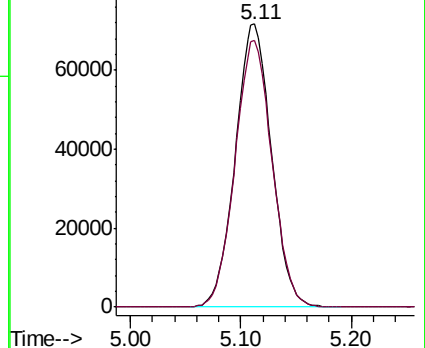
117 100

119 96.3 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 54.305 ug/L

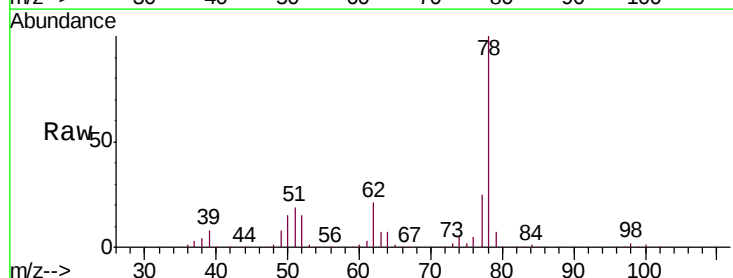
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU033557.D

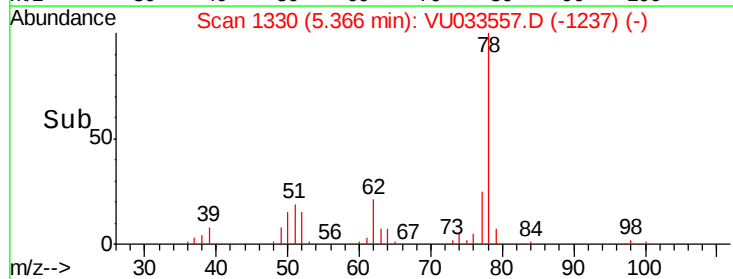
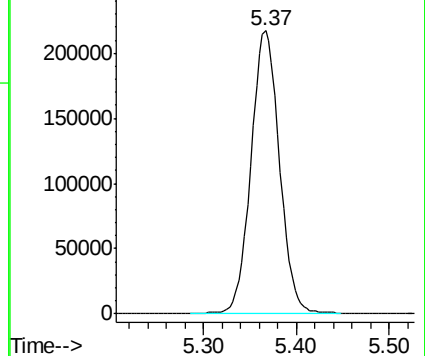
Acq: 02 Aug 2019 09:16

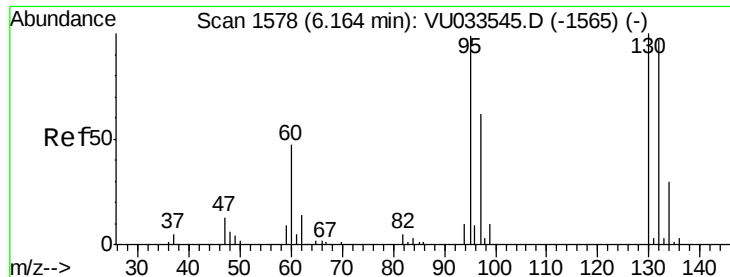
Tgt Ion: 78 Resp: 463808



Abundance Ion 78.00 (77.70 to 78.70): VU0

Time-->





#34

Trichloroethene

Concen: 53.048 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

Tgt Ion: 95 Resp: 119512

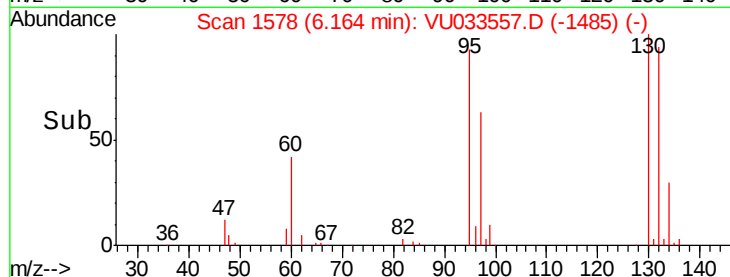
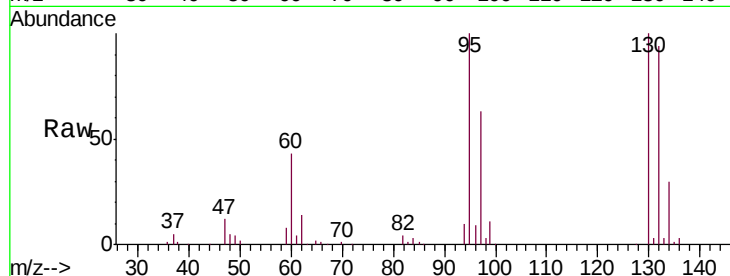
Ion Ratio Lower Upper

95 100

97 62.7 44.7 83.1

132 94.4 66.8 124.0

130 100.1 71.6 133.0

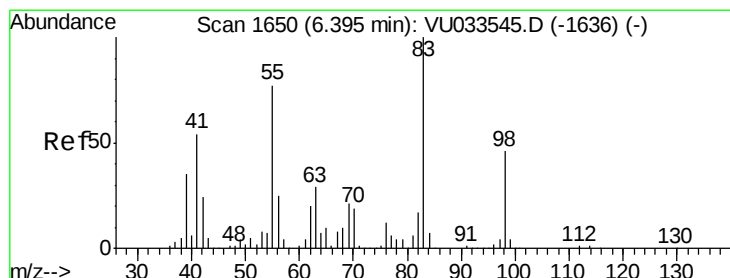
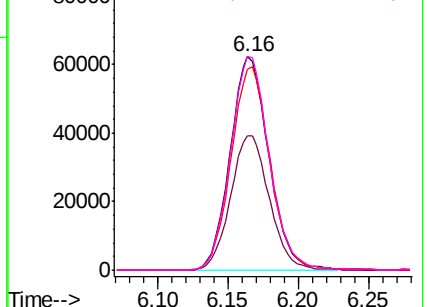


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 54.872 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

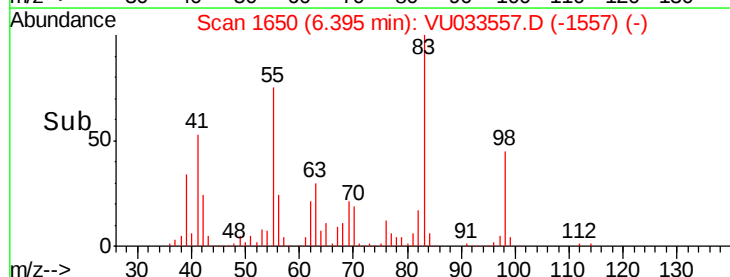
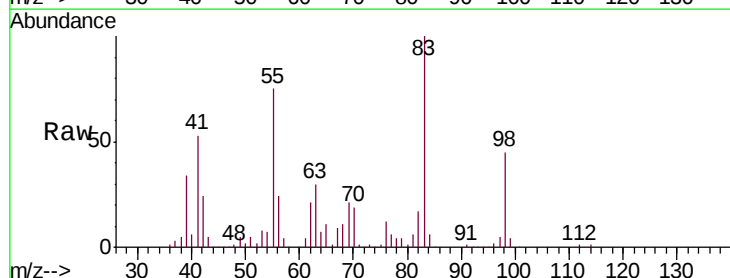
Tgt Ion: 83 Resp: 192912

Ion Ratio Lower Upper

83 100

55 75.3 60.2 90.4

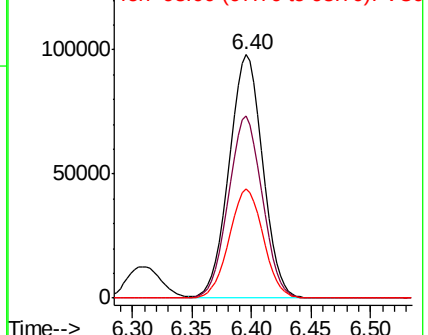
98 45.2 36.5 54.7

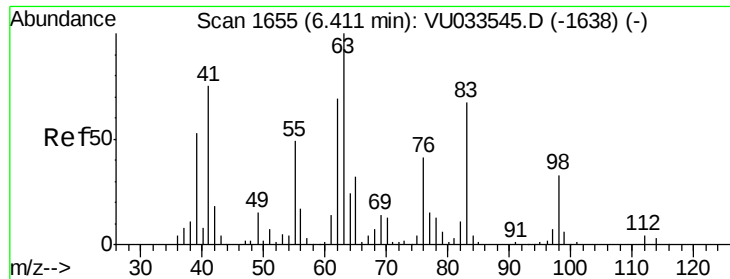


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

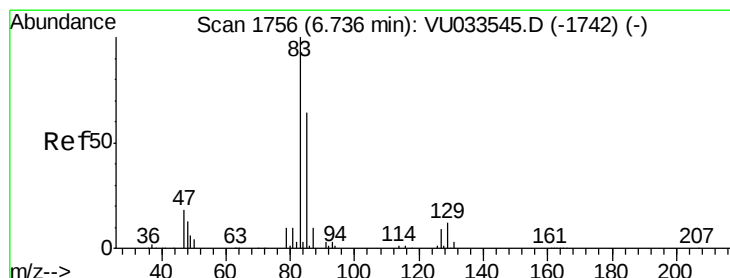
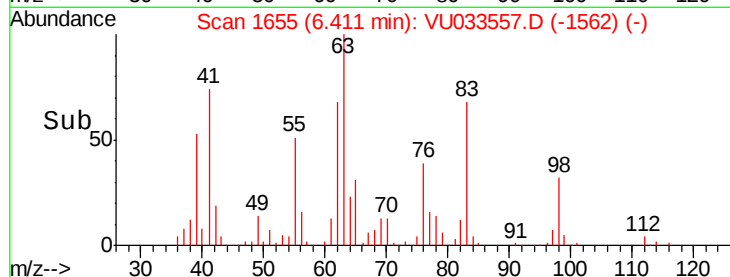
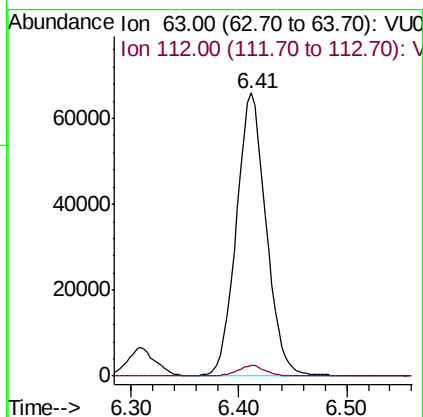
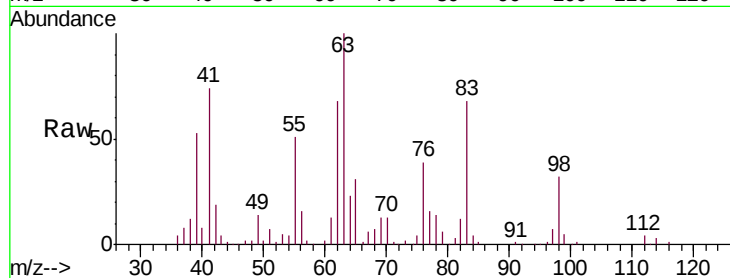




#37
 1,2-Dichloropropane
 Concen: 55.271 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

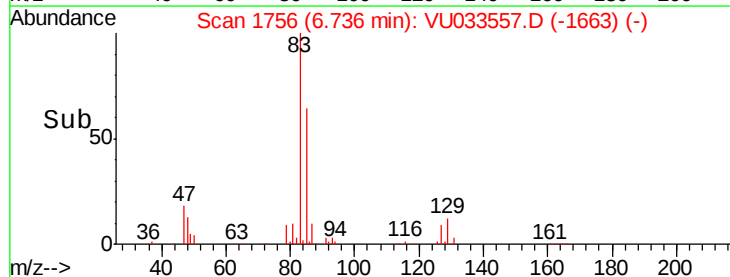
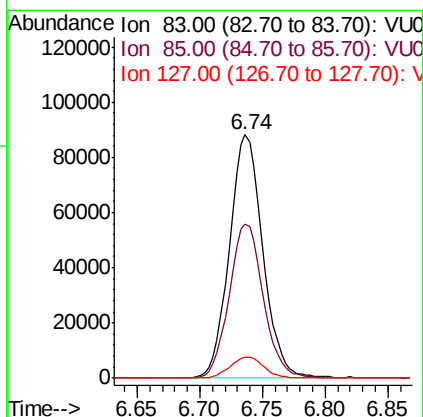
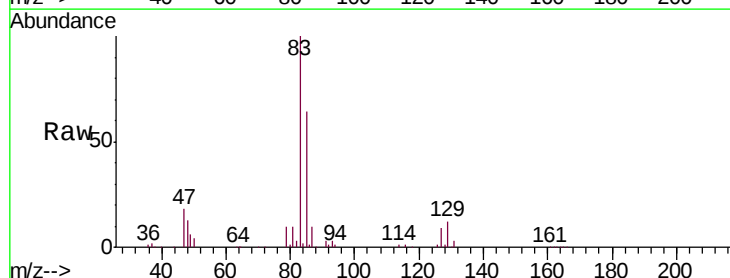
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

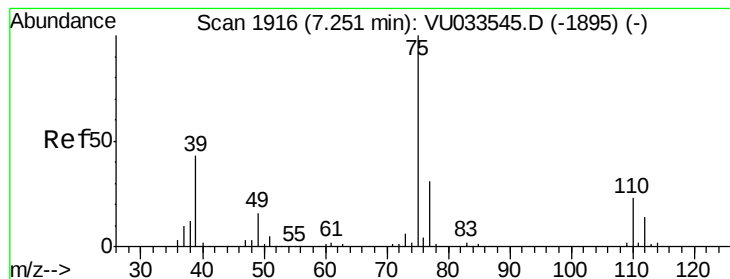
Tgt Ion: 63 Resp: 126357
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.6



#38
 Bromodichloromethane
 Concen: 55.229 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

Tgt Ion: 83 Resp: 163222
 Ion Ratio Lower Upper
 83 100
 85 63.5 45.1 83.9
 127 8.5 7.2 10.8



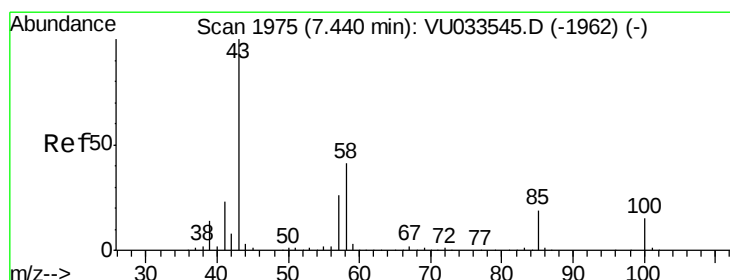
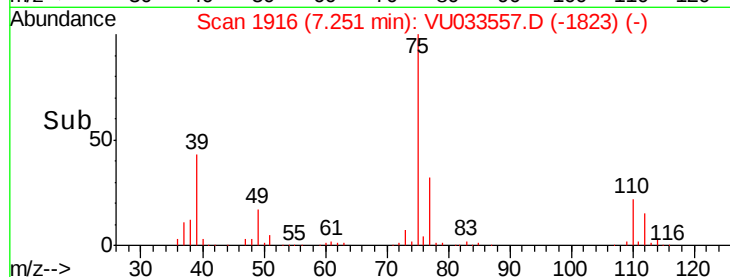
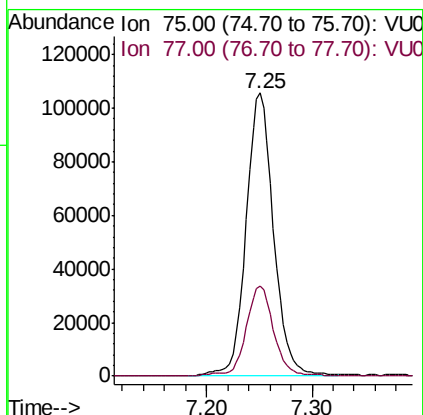
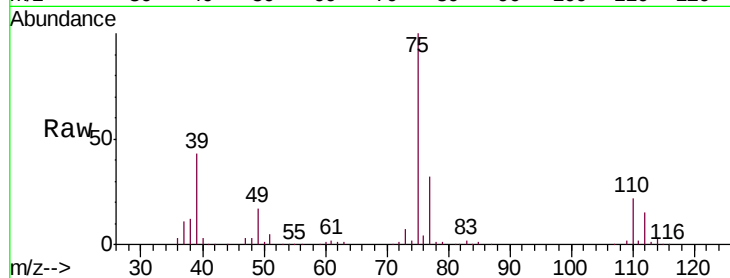


#39

cis-1,3-Dichloropropene
 Concen: 53.909 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

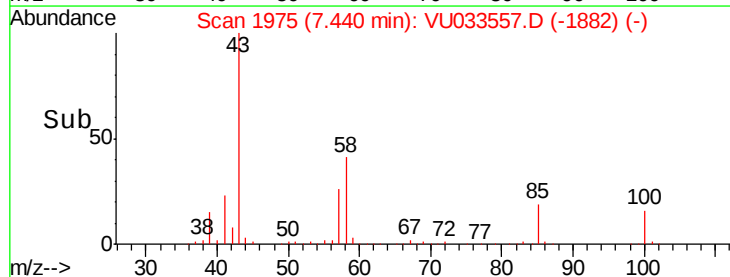
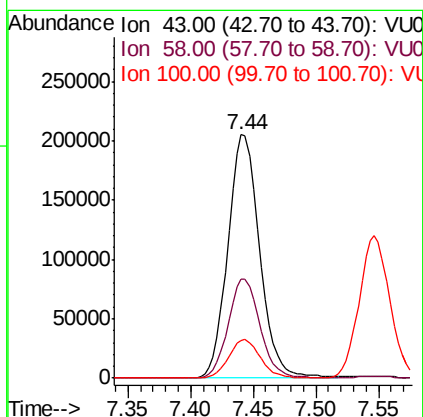
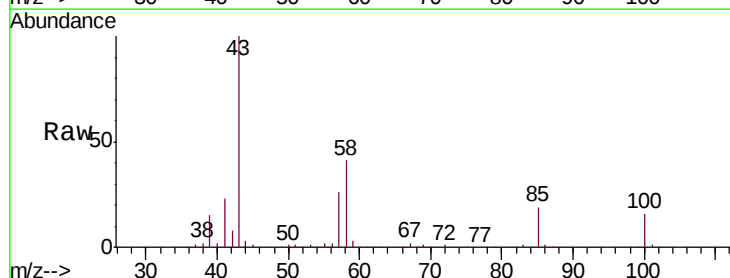
Tgt Ion: 75 Resp: 192358
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5

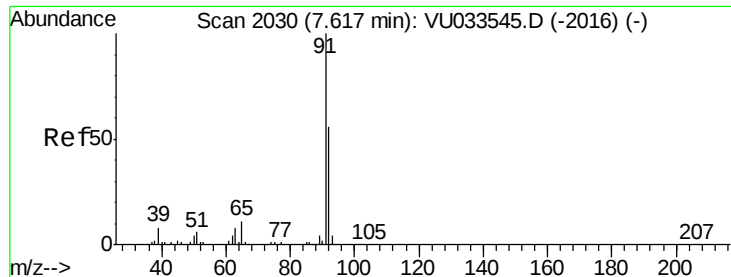


#40

4-Methyl-2-pentanone
 Concen: 114.689 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

Tgt Ion: 43 Resp: 362004
 Ion Ratio Lower Upper
 43 100
 58 40.7 32.8 49.2
 100 15.7 12.9 19.3





#42

Toluene

Concen: 55.442 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

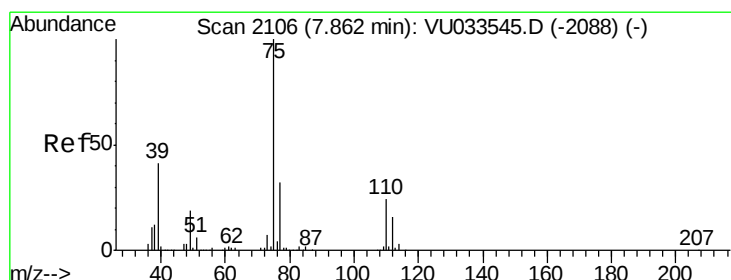
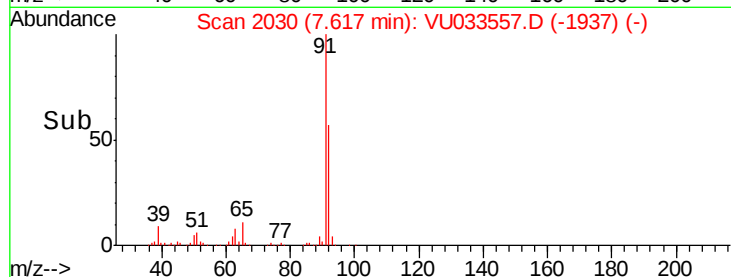
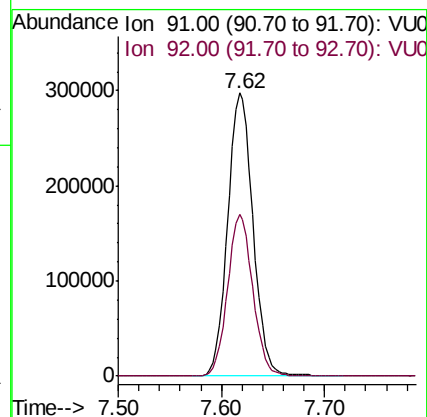
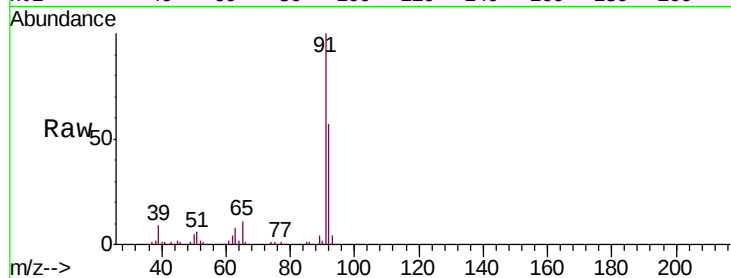
VSTD05046

Tgt Ion: 91 Resp: 509163

Ion Ratio Lower Upper

91 100

92 57.3 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 54.996 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033557.D

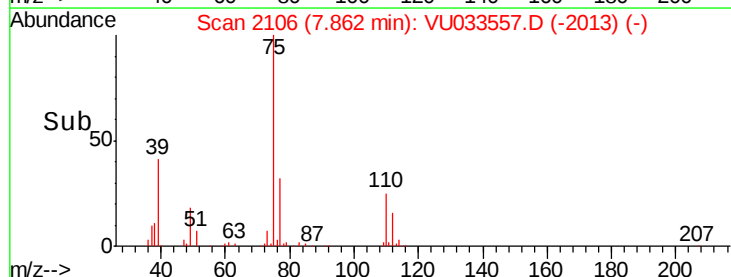
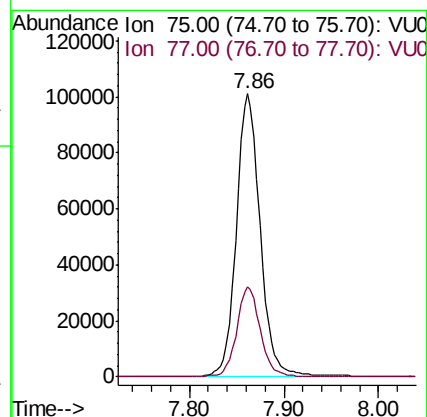
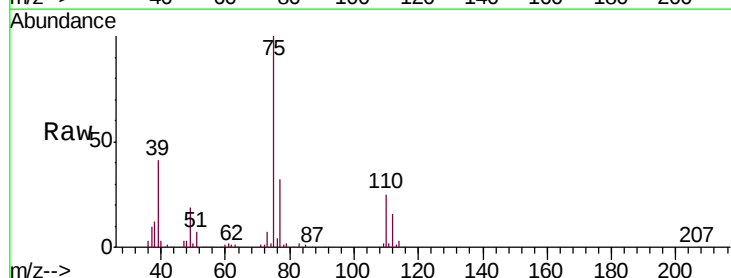
Acq: 02 Aug 2019 09:16

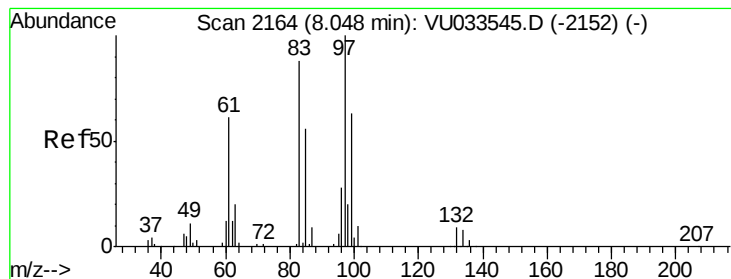
Tgt Ion: 75 Resp: 177344

Ion Ratio Lower Upper

75 100

77 31.8 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 55.095 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

Tgt Ion: 97 Resp: 119573

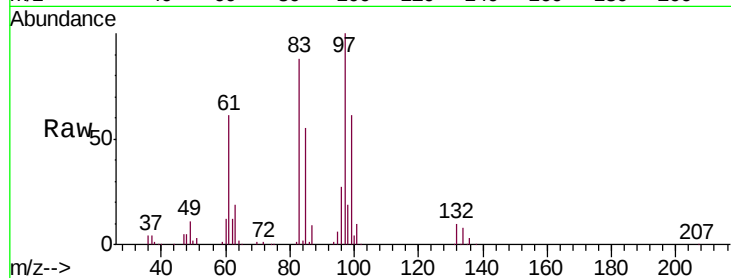
Ion Ratio Lower Upper

97 100

99 60.7 44.4 82.4

83 88.2 61.5 114.1

85 55.4 40.4 75.0

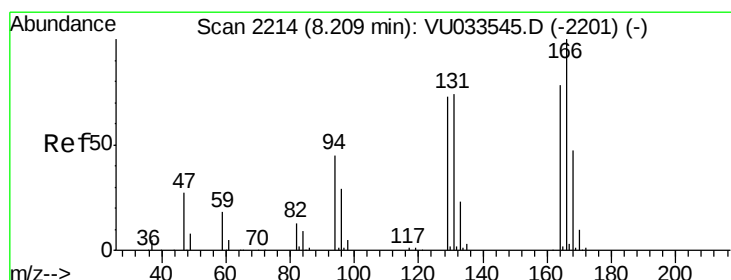
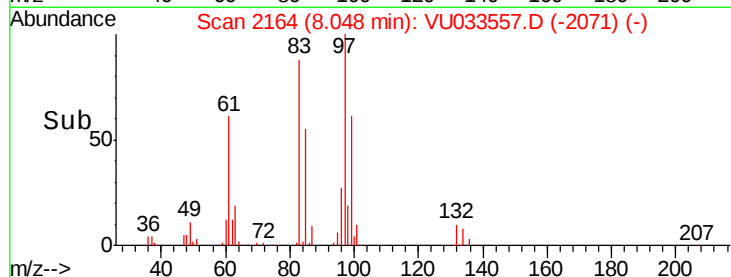
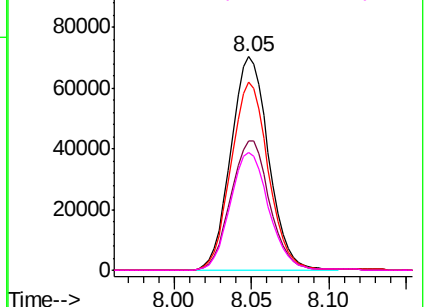


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 53.375 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Tgt Ion: 164 Resp: 98172

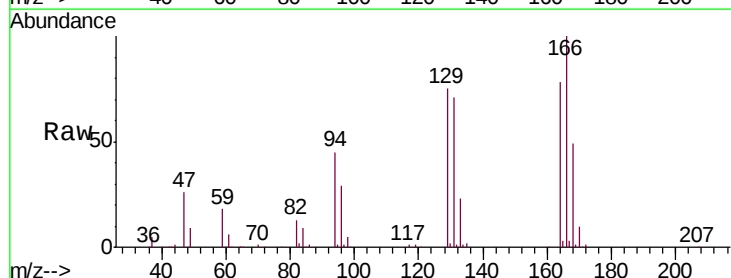
Ion Ratio Lower Upper

164 100

129 95.3 65.5 121.7

131 90.9 63.3 117.7

166 127.7 88.2 163.8

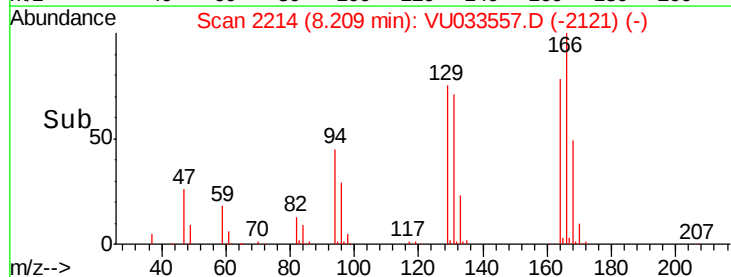
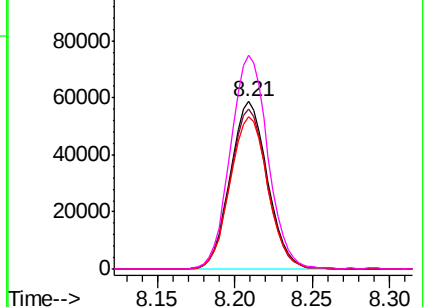


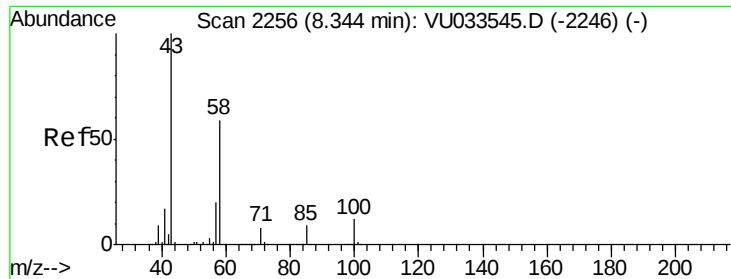
Abundance Ion 164.00 (163.70 to 164.70): V

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

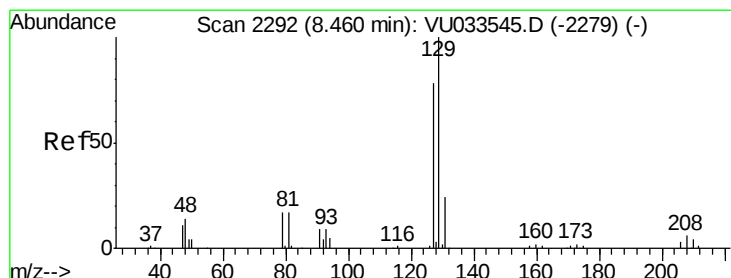
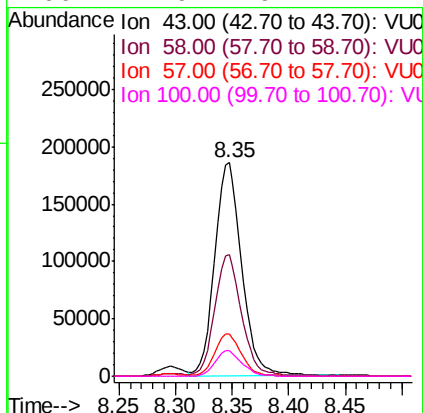
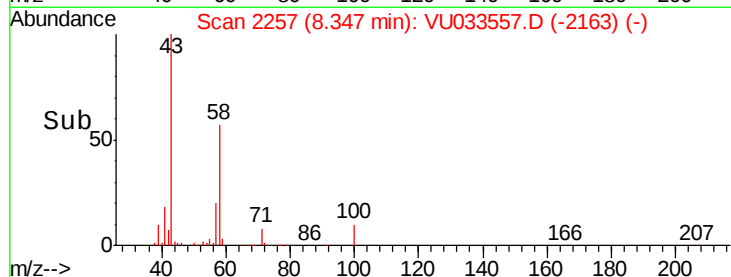
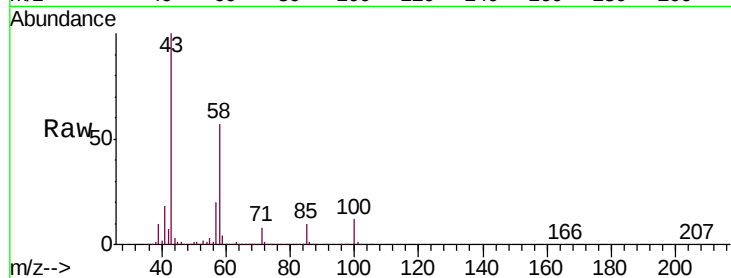




#48
2-Hexanone
Concen: 121.146 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033557.D
Acq: 02 Aug 2019 09:16

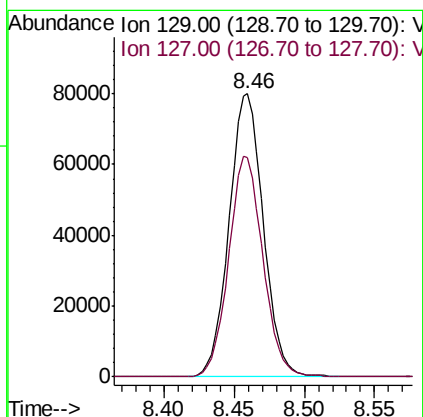
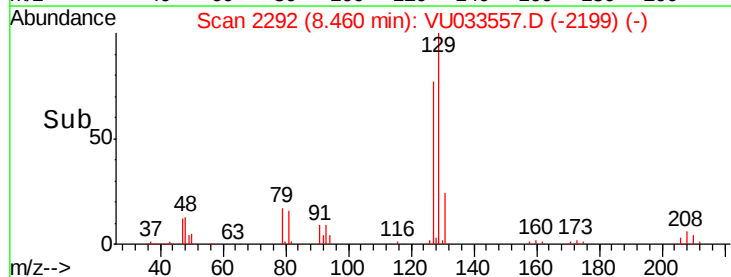
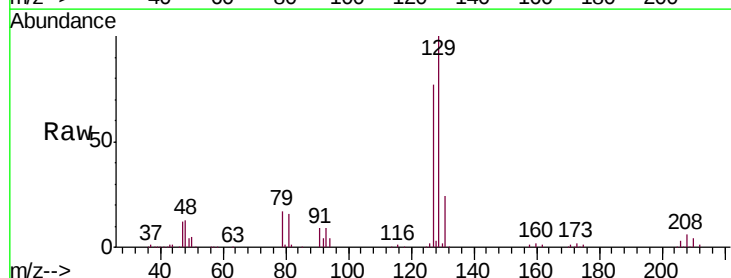
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

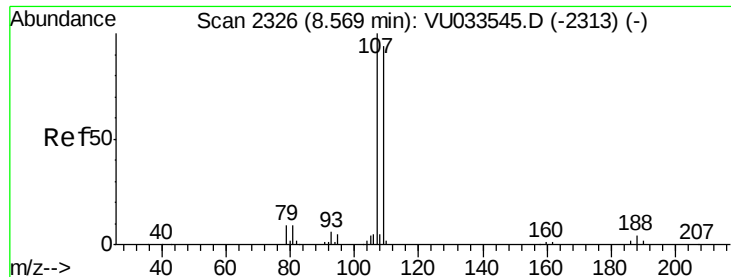
Tgt Ion: 43 Resp: 309085
Ion Ratio Lower Upper
43 100
58 56.5 45.8 68.6
57 19.9 15.8 23.6
100 11.9 9.4 14.2



#49
Dibromochloromethane
Concen: 55.129 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033557.D
Acq: 02 Aug 2019 09:16

Tgt Ion: 129 Resp: 136126
Ion Ratio Lower Upper
129 100
127 77.4 53.8 99.8

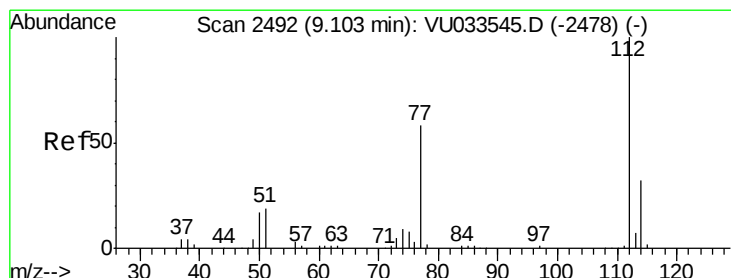
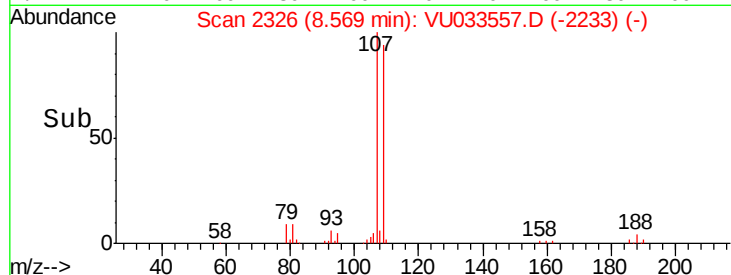
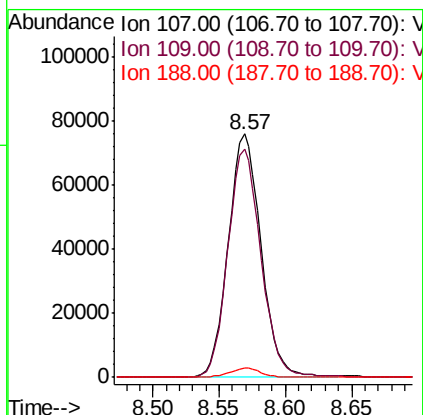
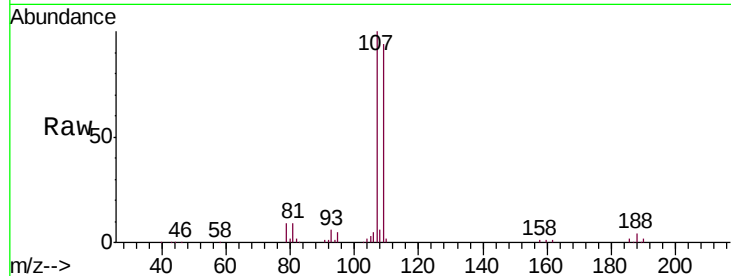




#50
 1,2-Dibromoethane
 Concen: 54.292 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

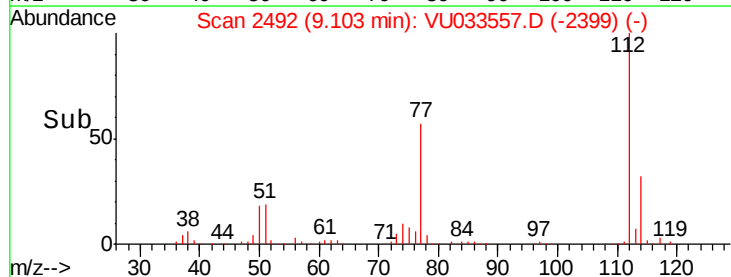
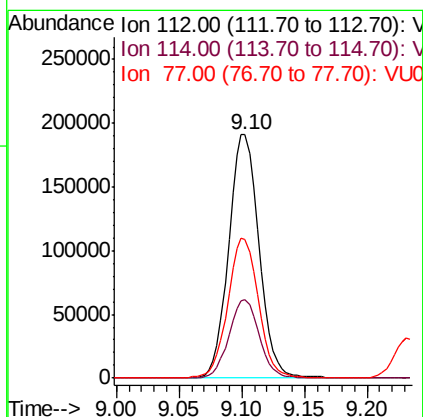
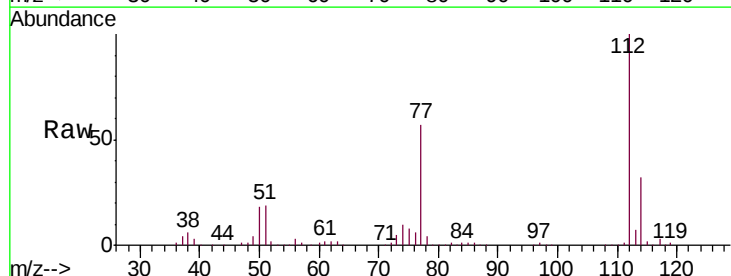
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

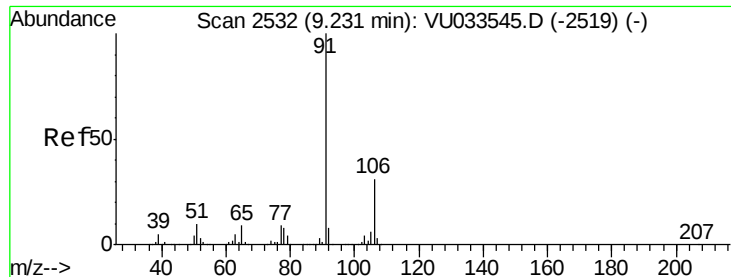
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.7	66.8	124.0
188	3.6	3.0	4.4



#51
 Chlorobenzene
 Concen: 53.449 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.3	41.5
77	57.0	45.6	68.4





#52

Ethylbenzene

Concen: 54.562 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

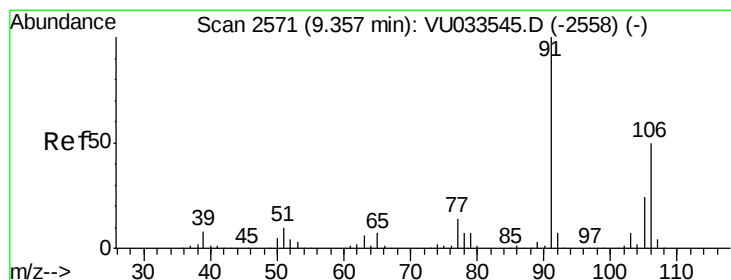
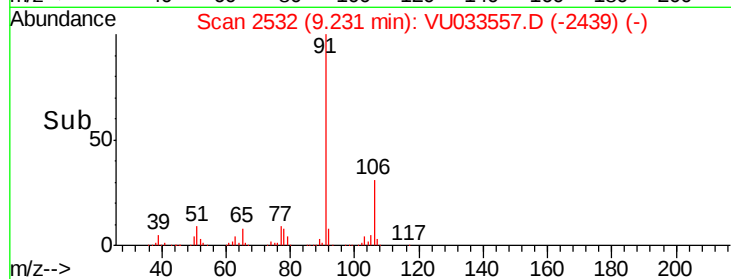
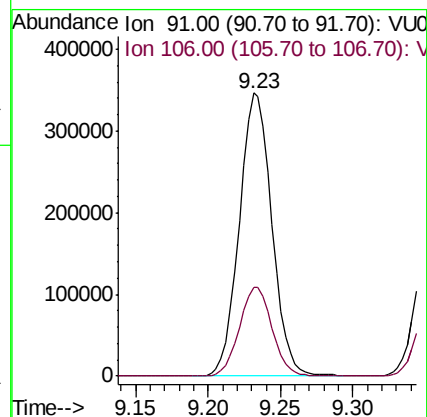
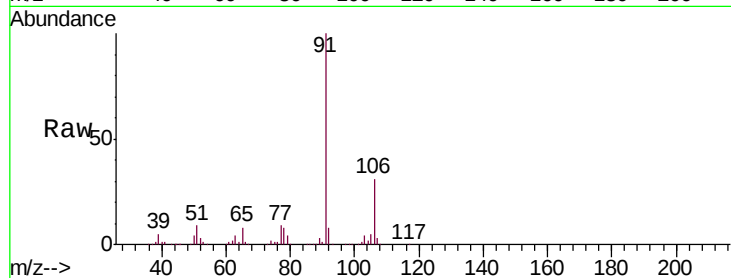
VSTD05046

Tgt Ion: 91 Resp: 539575

Ion Ratio Lower Upper

91 100

106 31.4 22.2 41.2



#53

m,p-Xylene

Concen: 55.048 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033557.D

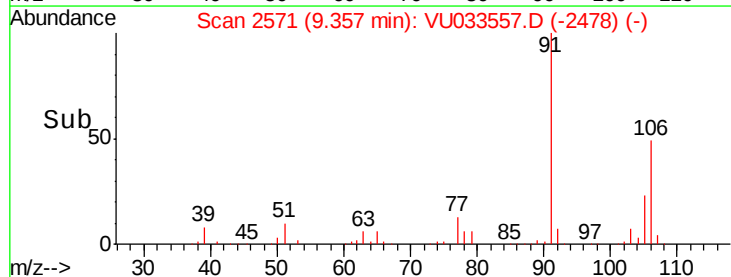
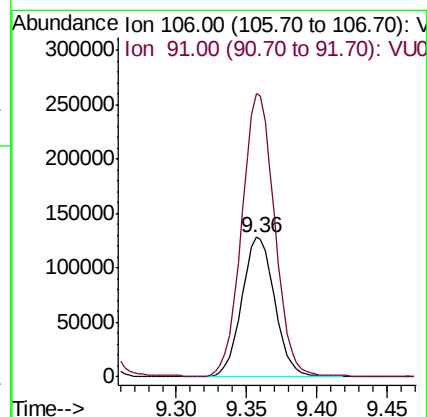
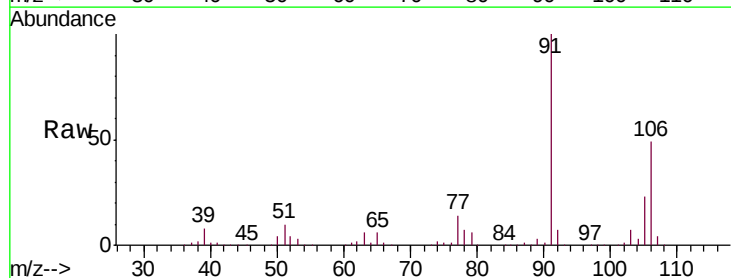
Acq: 02 Aug 2019 09:16

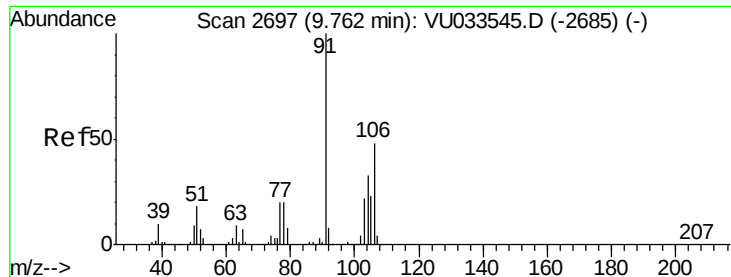
Tgt Ion: 106 Resp: 208987

Ion Ratio Lower Upper

106 100

91 202.5 143.0 265.6





#54

o-xylene

Concen: 55.121 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

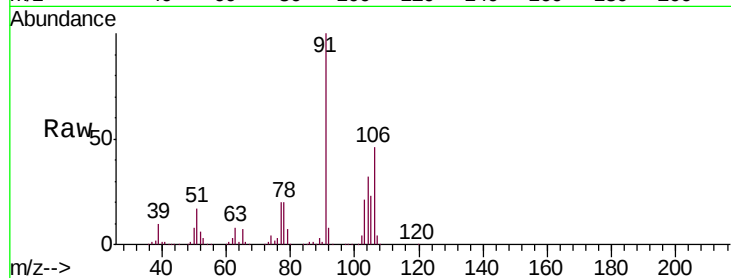
VSTD05046

Tgt Ion:106 Resp: 202994

Ion Ratio Lower Upper

106 100

91 218.1 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

300000

250000

200000

150000

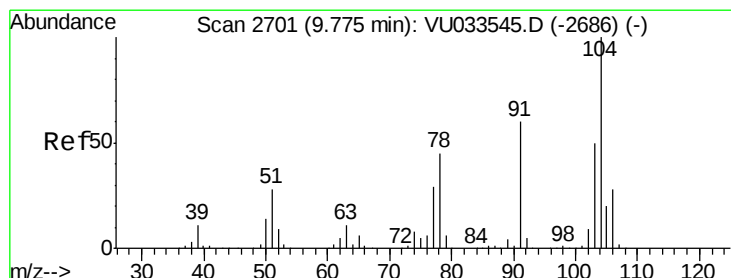
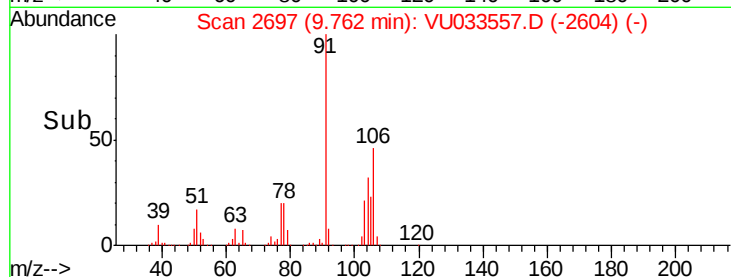
100000

50000

0

9.70 9.75 9.80 9.85

Time-->



#55

Styrene

Concen: 56.768 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033557.D

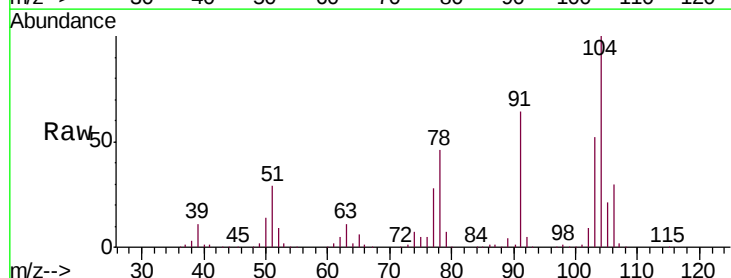
Acq: 02 Aug 2019 09:16

Tgt Ion:104 Resp: 355071

Ion Ratio Lower Upper

104 100

78 45.9 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

250000

200000

150000

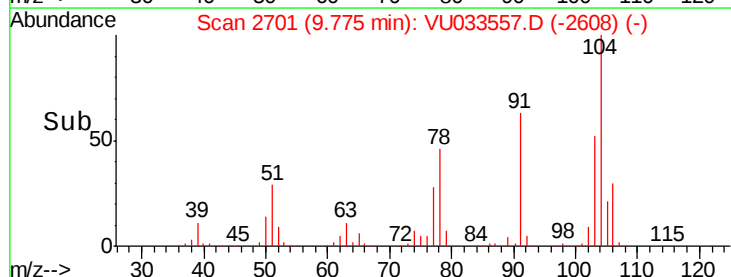
100000

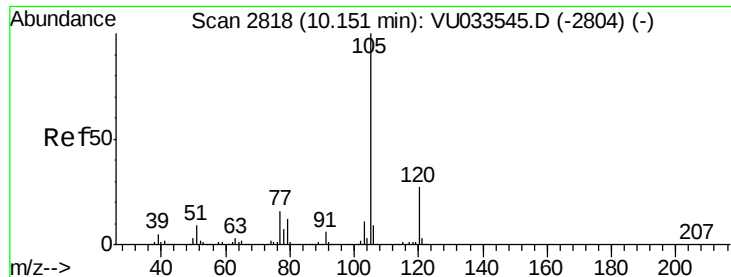
50000

0

9.70 9.80 9.90

Time-->





#56

Isopropylbenzene

Concen: 55.065 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

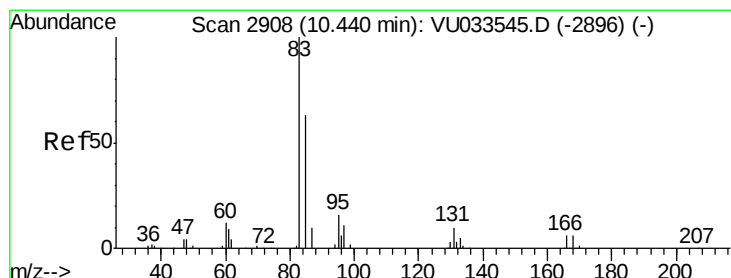
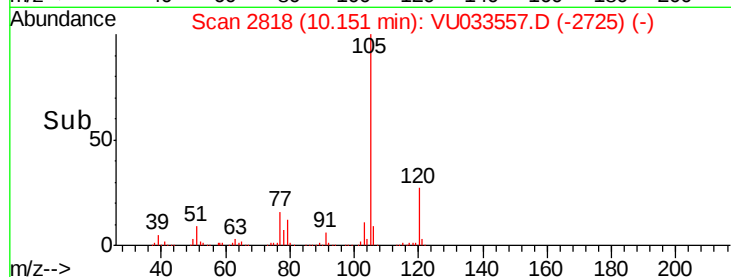
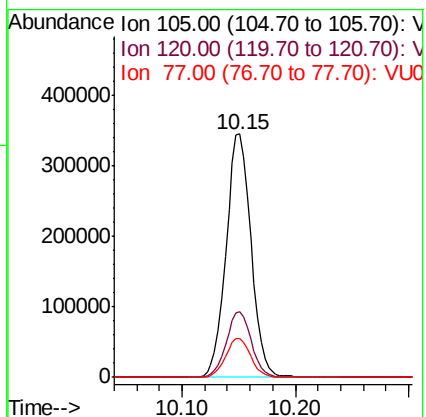
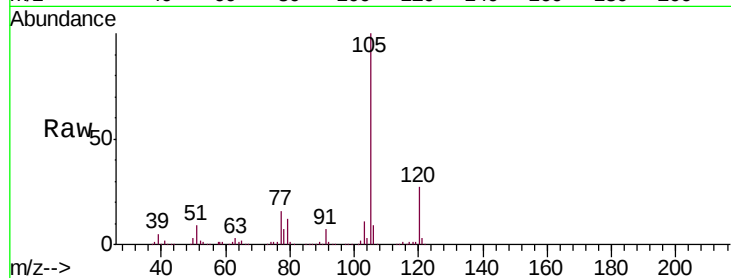
Tgt Ion: 105 Resp: 529856

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.0

77 15.9 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 54.608 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

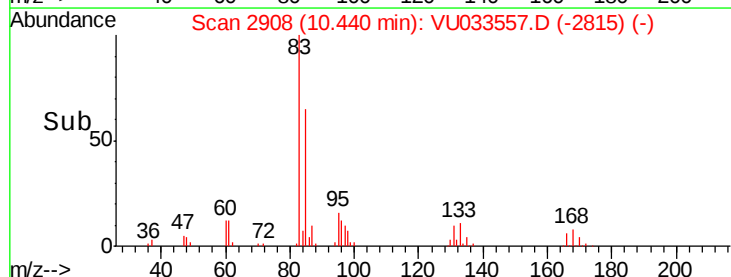
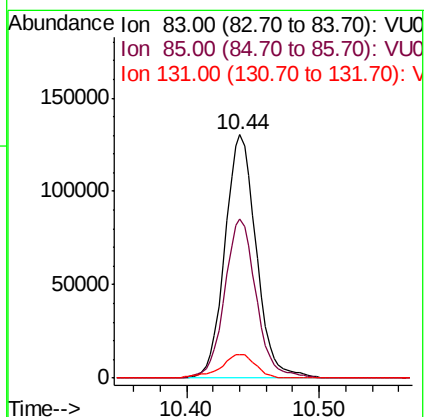
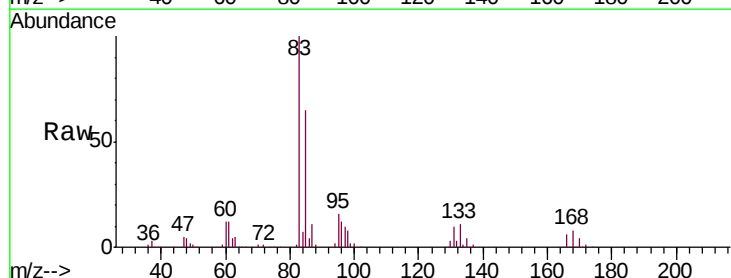
Tgt Ion: 83 Resp: 213761

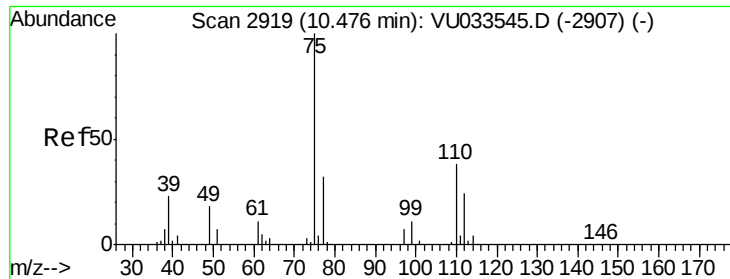
Ion Ratio Lower Upper

83 100

85 65.2 45.4 84.4

131 9.8 7.9 11.9

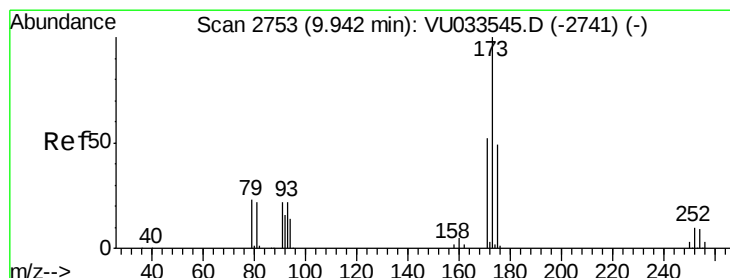
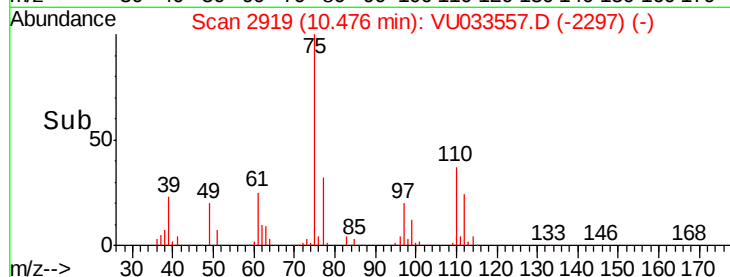
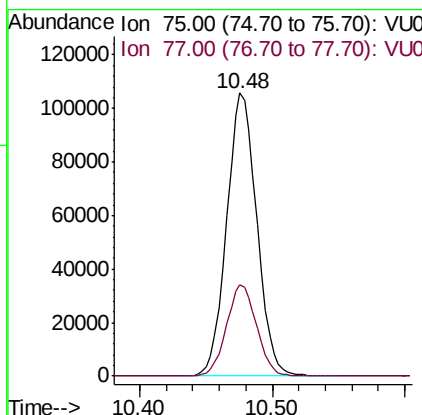
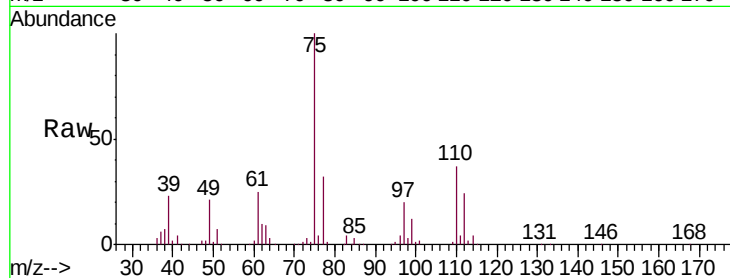




#59
 1,2,3-Trichloropropane
 Concen: 55.239 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

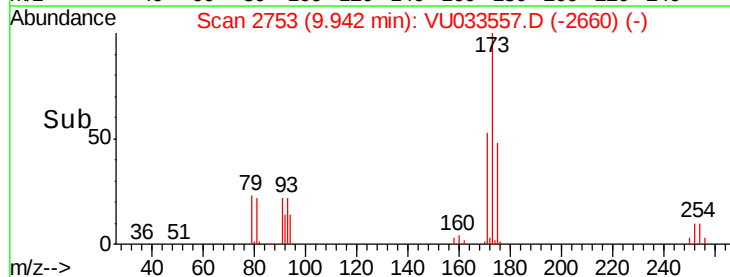
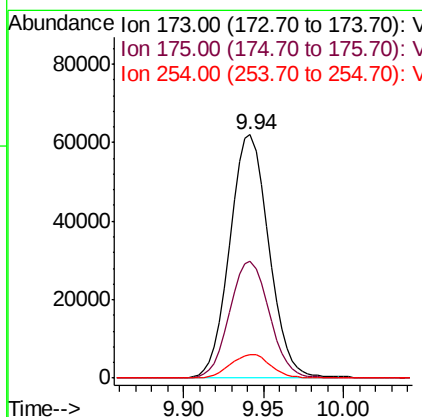
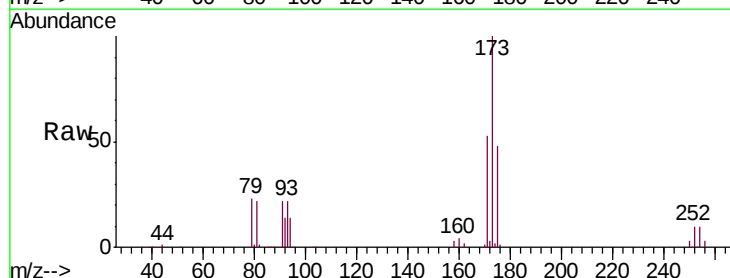
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

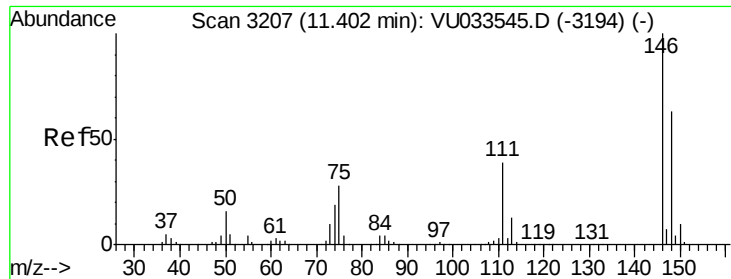
Tgt Ion: 75 Resp: 166687
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.8 38.6



#61
 Bromoform
 Concen: 54.219 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033557.D
 Acq: 02 Aug 2019 09:16

Tgt Ion: 173 Resp: 103551
 Ion Ratio Lower Upper
 173 100
 175 49.0 38.7 58.1
 254 9.8 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 53.997 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

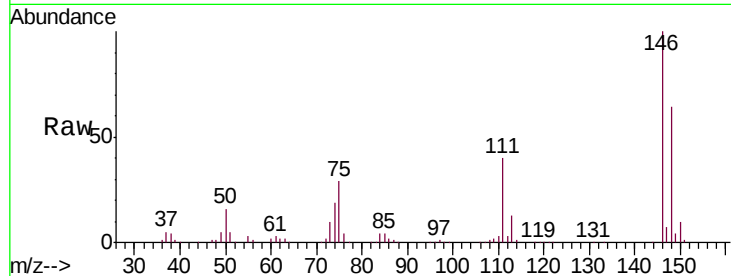
Tgt Ion:146 Resp: 262195

Ion Ratio Lower Upper

146 100

111 40.0 28.1 52.1

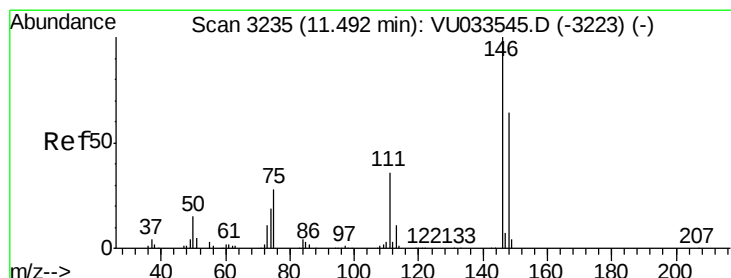
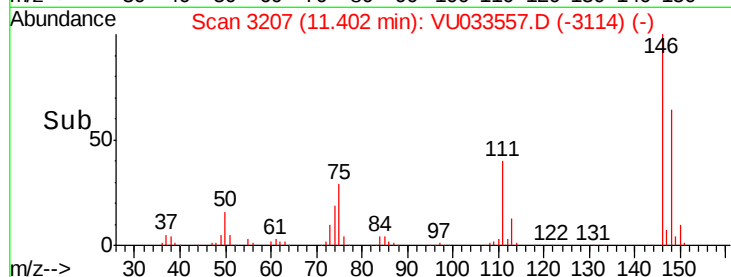
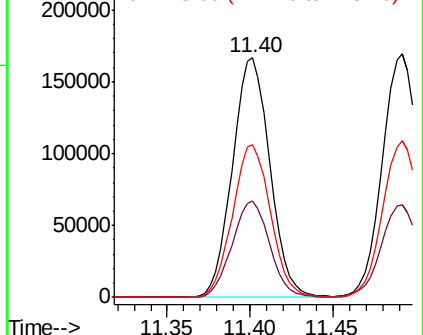
148 63.8 45.0 83.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 52.828 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

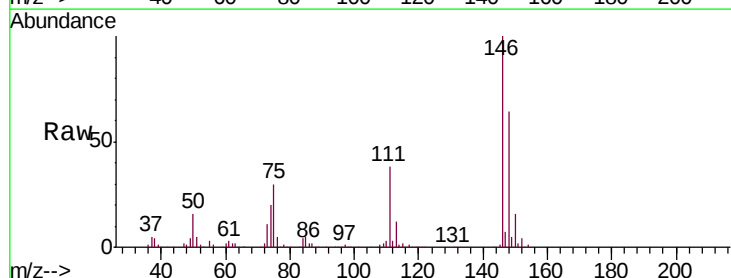
Tgt Ion:146 Resp: 266499

Ion Ratio Lower Upper

146 100

111 37.8 27.2 50.4

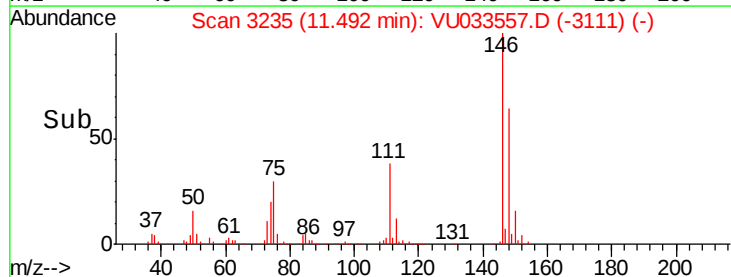
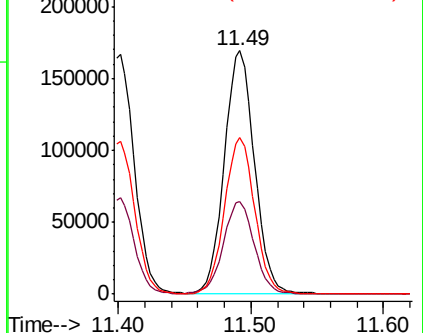
148 64.2 44.5 82.7

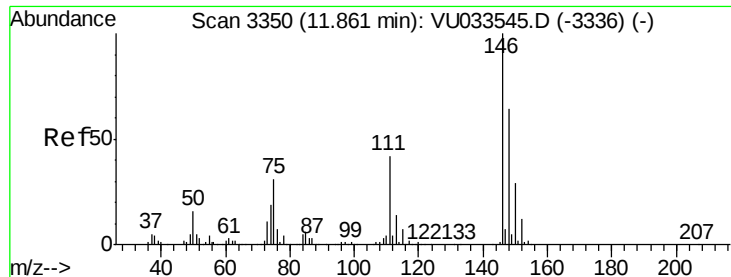


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 54.179 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

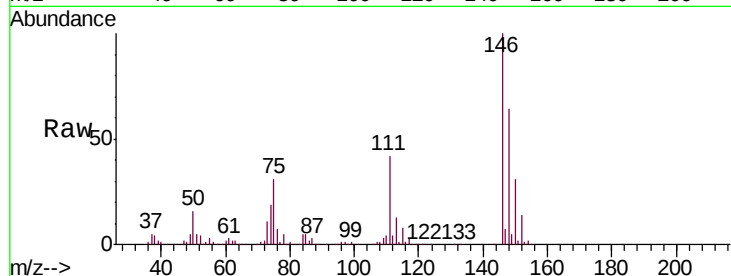
Tgt Ion: 146 Resp: 265998

Ion Ratio Lower Upper

146 100

111 41.9 31.7 47.5

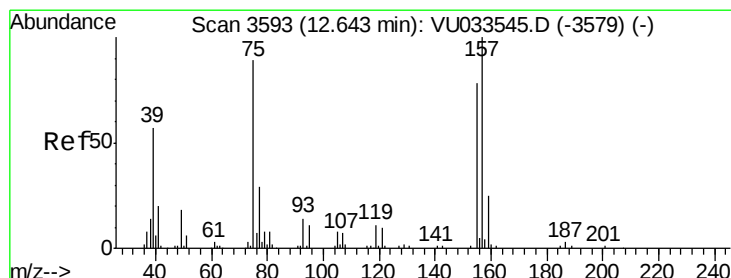
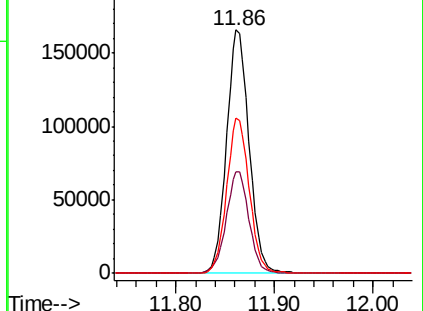
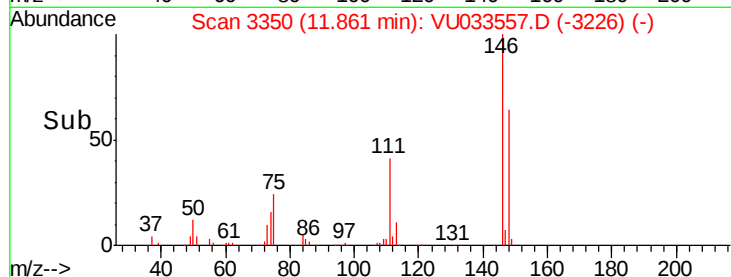
148 63.9 50.3 75.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 55.227 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

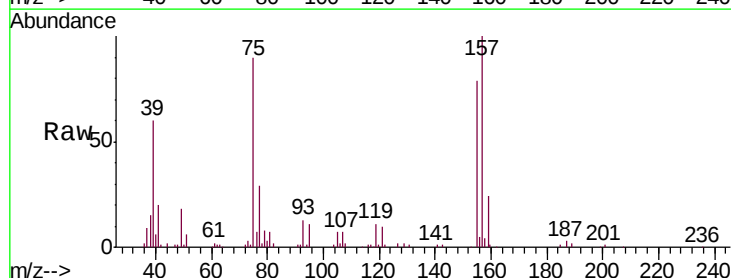
Tgt Ion: 75 Resp: 50096

Ion Ratio Lower Upper

75 100

155 87.2 69.4 104.0

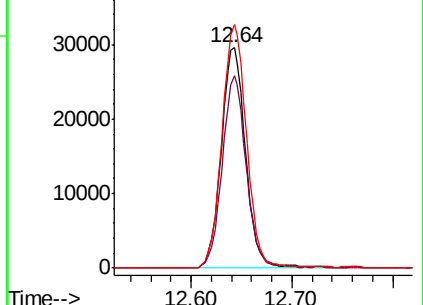
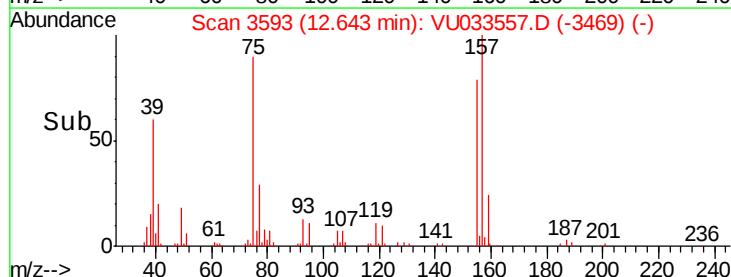
157 110.6 91.8 137.8

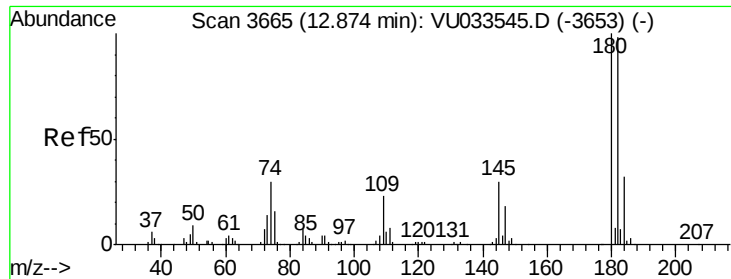


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#67

1,3,5-Trichlorobenzene

Concen: 51.370 ug/L

RT: 12.87 min Scan# 3665

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

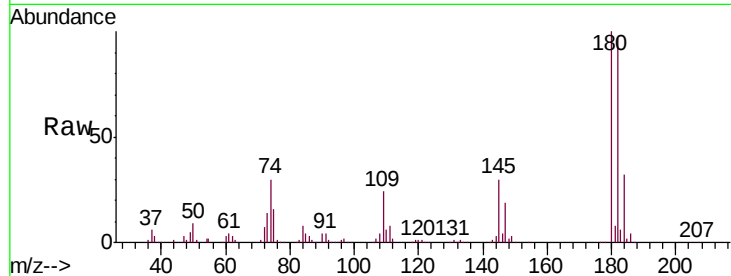
Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

Tgt Ion:	180	Resp:	201235
Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.6	113.4
184	31.0	24.2	36.2
145	29.3	22.7	34.1



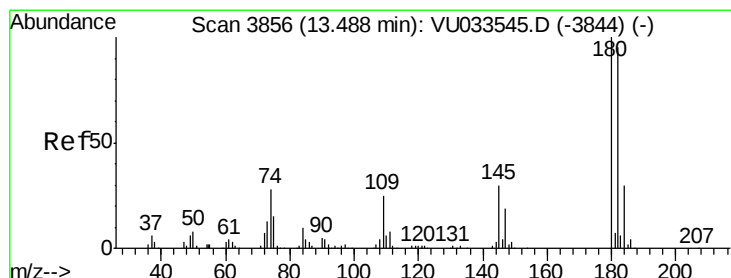
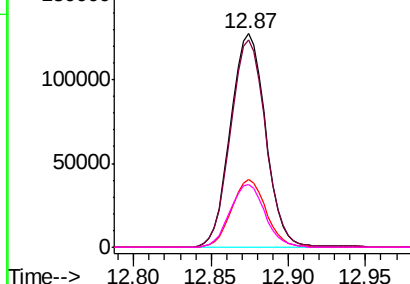
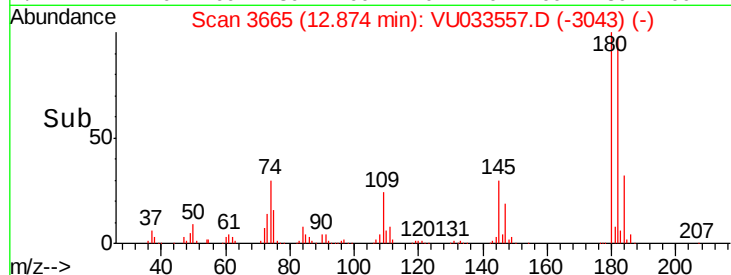
Abundance

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: 51.762 ug/L

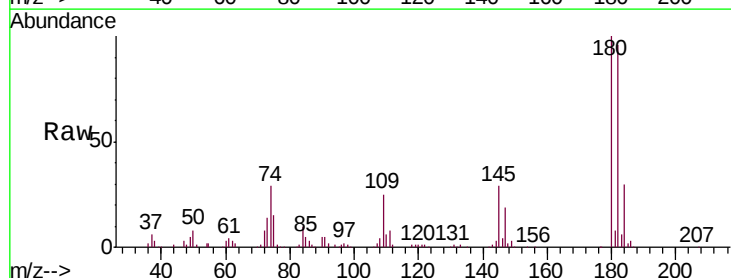
RT: 13.49 min Scan# 3856

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Tgt Ion:	180	Resp:	173263
Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.8	113.8
145	29.4	24.3	36.5

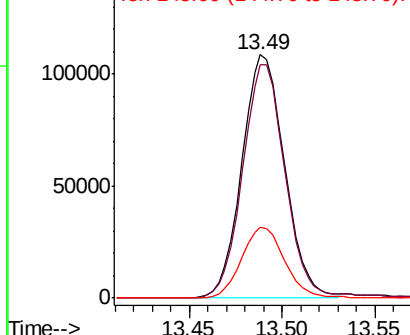
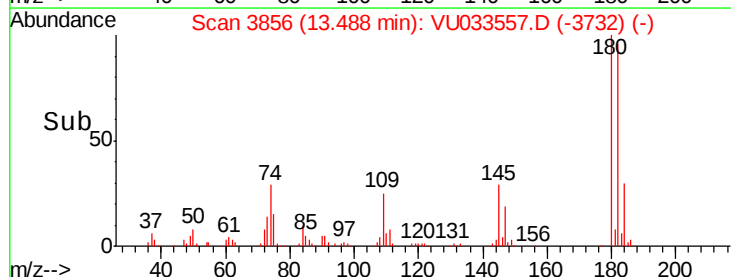


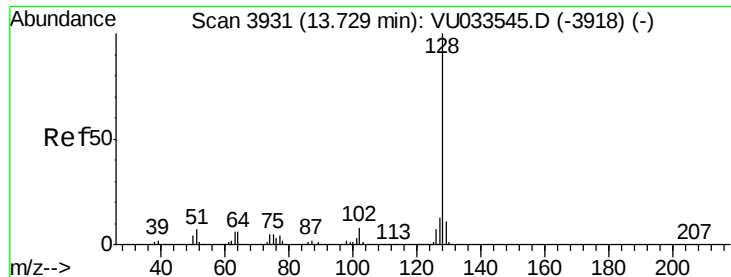
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 53.895 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

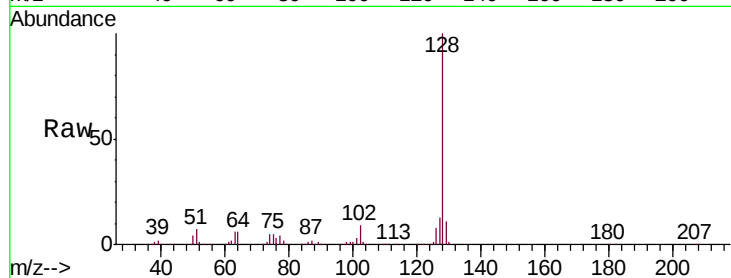
Tgt Ion:128 Resp: 517586

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

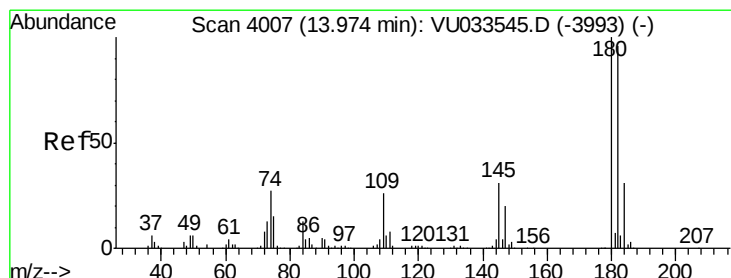
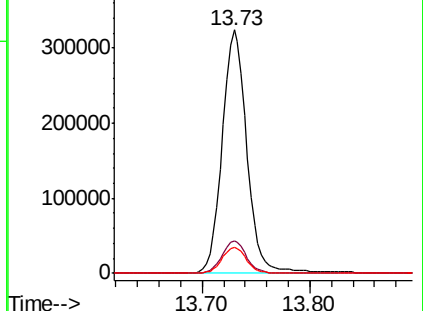
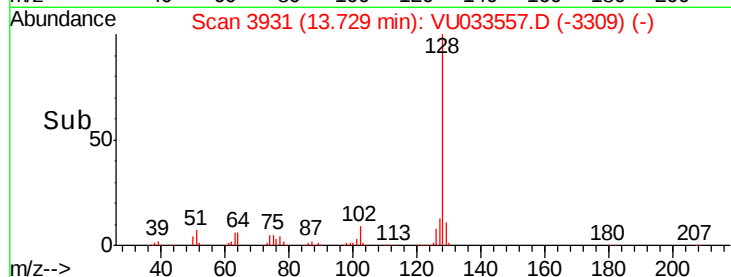
129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 53.093 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033557.D

Acq: 02 Aug 2019 09:16

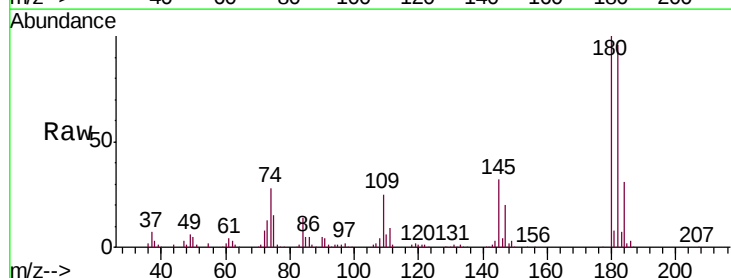
Tgt Ion:180 Resp: 186903

Ion Ratio Lower Upper

180 100

182 94.6 75.5 113.3

145 31.1 24.4 36.6



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

