

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080519\
 Data File : VU033600.D
 Acq On : 05 Aug 2019 15:35
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Quant Time: Aug 06 05:43:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 03:56:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	323381	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	315572	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	169552	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	95443	46.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.36%
7) Chloroethane-d5	1.67	69	87295	37.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.80%
11) 1,1-Dichloroethene-d2	2.26	63	190370	47.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.14%
21) 2-Butanone-d5	4.15	46	179892	107.45	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.45%
24) Chloroform-d	4.62	84	193484	49.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.36%
26) 1,2-Dichloroethane-d4	5.28	65	120365	48.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.04%
32) Benzene-d6	5.32	84	381766	49.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.94%
36) 1,2-Dichloropropane-d6	6.31	67	123734	50.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.20%
41) Toluene-d8	7.55	98	359299	50.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.06%
43) trans-1,3-Dichloropropene-	7.83	79	61349	49.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.88%
47) 2-Hexanone-d5	8.29	63	133025	110.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.12%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	193000	51.06	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.12%
64) 1,2-Dichlorobenzene-d4	11.84	152	151556	49.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.54%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	140013	50.631	ug/L 100
3) Chloromethane	1.32	50	151574	50.575	ug/L 100
5) Vinyl chloride	1.39	62	163375	49.822	ug/L 97
6) Bromomethane	1.62	94	138338	52.813	ug/L 100
8) Chloroethane	1.69	64	100298	38.895	ug/L 98
9) Trichlorofluoromethane	1.87	101	214096	50.062	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	109679	50.496	ug/L 98
12) 1,1-Dichloroethene	2.27	96	106132	50.249	ug/L 99
13) Acetone	2.31	43	168316	100.933	ug/L 99
14) Carbon disulfide	2.46	76	326105	49.810	ug/L 100
15) Methyl Acetate	2.60	43	137855	50.628	ug/L 99
16) Methylene chloride	2.69	84	124396	50.483	ug/L 100
17) trans-1,2-Dichloroethene	2.96	96	112077	49.739	ug/L 100
18) Methyl tert-butyl Ether	2.98	73	357866	51.284	ug/L 99
19) 1,1-Dichloroethane	3.42	63	215218	50.743	ug/L 100
20) cis-1,2-Dichloroethene	4.20	96	130141	52.362	ug/L 97
22) 2-Butanone	4.23	43	219278	104.687	ug/L 98

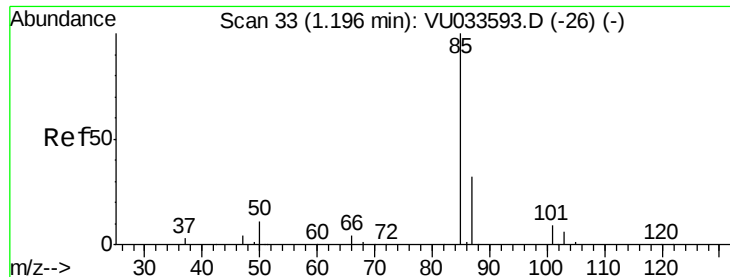
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080519\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	65706	50.555	ug/L	97
25) Chloroform	4.65	83	221288	50.494	ug/L	99
27) 1,2-Dichloroethane	5.38	62	172828	50.477	ug/L	99
29) Cyclohexane	4.97	56	186594	51.917	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	185712	50.308	ug/L	99
31) Carbon tetrachloride	5.11	117	165013	50.924	ug/L	99
33) Benzene	5.37	78	483324	51.449	ug/L	100
34) Trichloroethene	6.16	95	121700	50.296	ug/L	100
35) Methylcyclohexane	6.40	83	201322	52.853	ug/L	100
37) 1,2-Dichloropropane	6.41	63	128739	50.177	ug/L	100
38) Bromodichloromethane	6.74	83	164166	50.763	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	197527	50.626	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	388026	105.683	ug/L	100
42) Toluene	7.62	91	525544	52.363	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	185224	52.758	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	120290	50.108	ug/L	98
46) Tetrachloroethene	8.21	164	102065	51.413	ug/L	98
48) 2-Hexanone	8.34	43	307304	104.807	ug/L	98
49) Dibromochloromethane	8.46	129	138266	51.247	ug/L	99
50) 1,2-Dibromoethane	8.57	107	134480	51.146	ug/L	98
51) Chlorobenzene	9.10	112	330904	50.492	ug/L	100
52) Ethylbenzene	9.23	91	566288	52.041	ug/L	100
53) m,p-Xylene	9.36	106	219036	52.856	ug/L	97
54) o-xylene	9.76	106	214416	52.823	ug/L	97
55) Styrene	9.77	104	364909	52.942	ug/L	97
56) Isopropylbenzene	10.15	105	561057	53.578	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	220503	51.368	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	169725	50.507	ug/L	99
61) Bromoform	9.94	173	107358	50.858	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	272364	51.201	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	276038	50.794	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	272187	51.303	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	51852	51.859	ug/L	99
67) 1,3,5-Trichlorobenzene	12.87	180	211874	51.732	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	187017	53.529	ug/L	99
69) Naphthalene	13.73	128	556291	54.789	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	195897	52.711	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.631 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

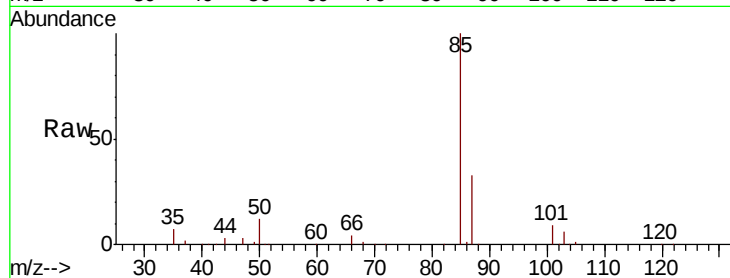
VSTD05048

Tgt Ion: 85 Resp: 140013

Ion Ratio Lower Upper

85 100

87 32.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033600.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033600.D (-1) (-)

1.20

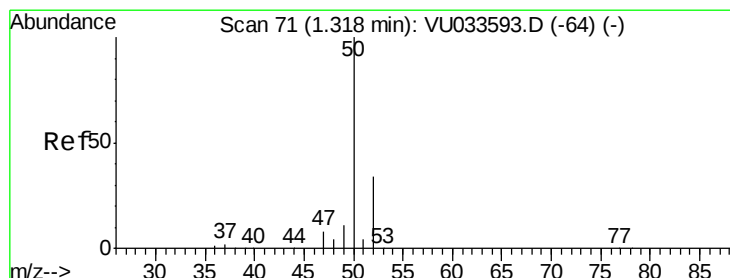
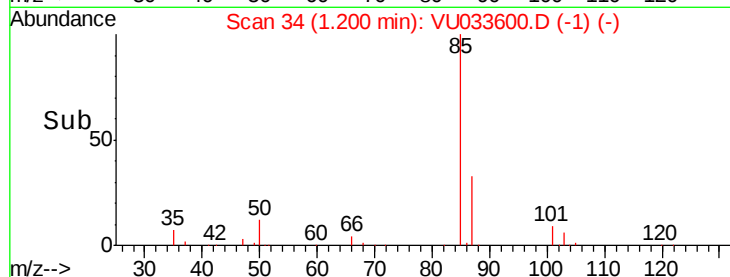
150000

100000

50000

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Time-->



#3

Chloromethane

Concen: 50.575 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033600.D

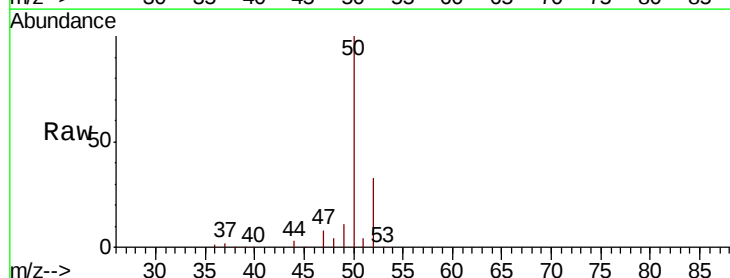
Acq: 05 Aug 2019 15:35

Tgt Ion: 50 Resp: 151574

Ion Ratio Lower Upper

50 100

52 33.5 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU033600.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033600.D (-1) (-)

1.32

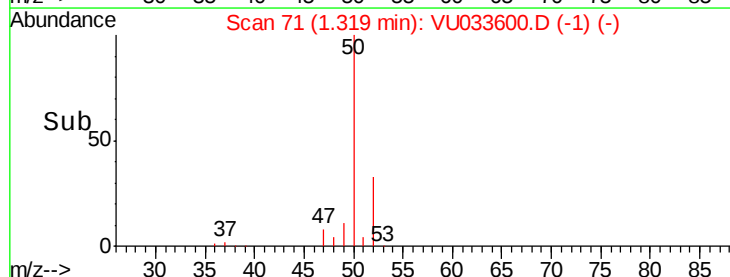
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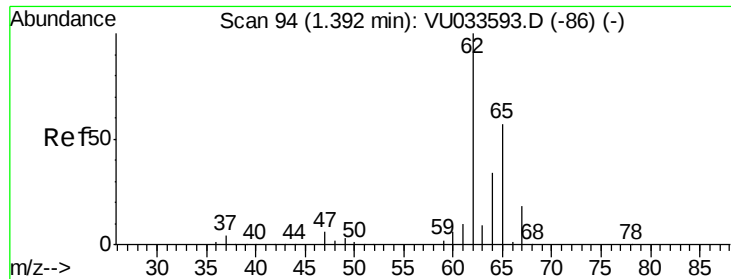
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Time-->





#5

Vinyl chloride

Concen: 49.822 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

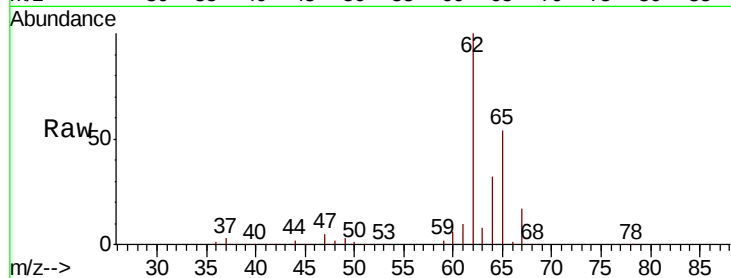
VSTD05048

Tgt Ion: 62 Resp: 163375

Ion Ratio Lower Upper

62 100

64 32.3 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU033593.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033593.D (-86) (-)

1.39

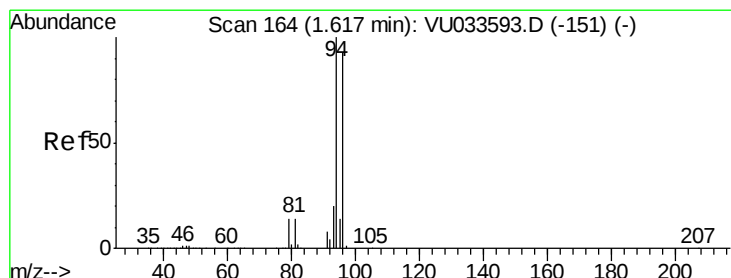
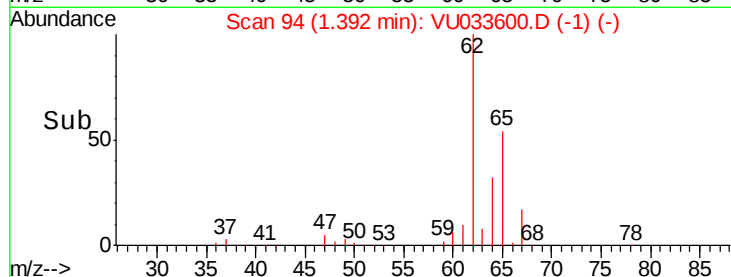
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 52.813 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU033600.D

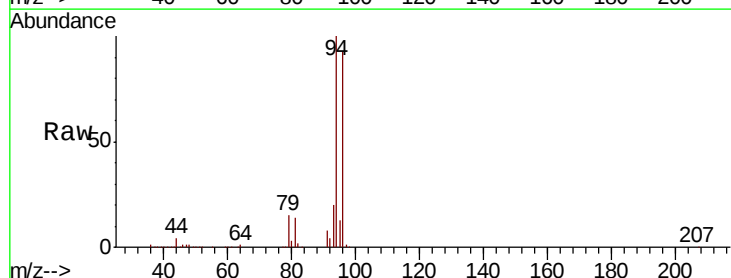
Acq: 05 Aug 2019 15:35

Tgt Ion: 94 Resp: 138338

Ion Ratio Lower Upper

94 100

96 93.0 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU033593.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU033593.D (-151) (-)

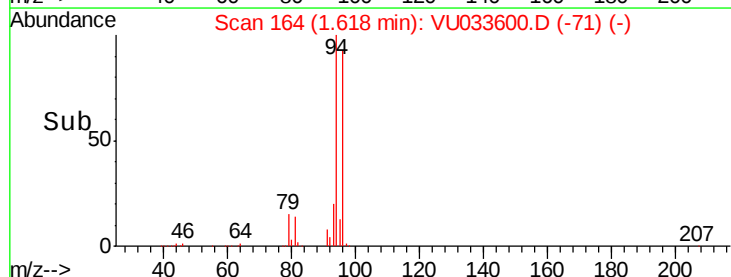
1.62

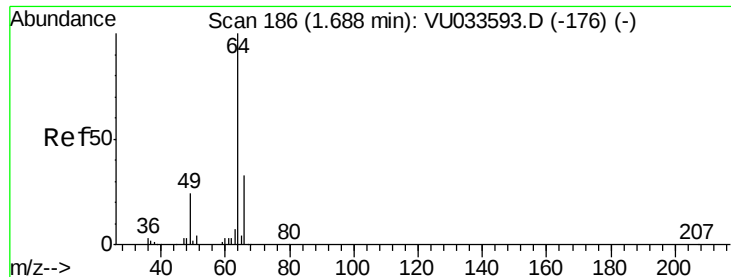
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Time-->

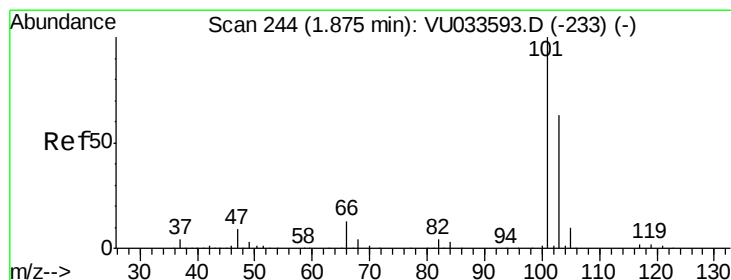
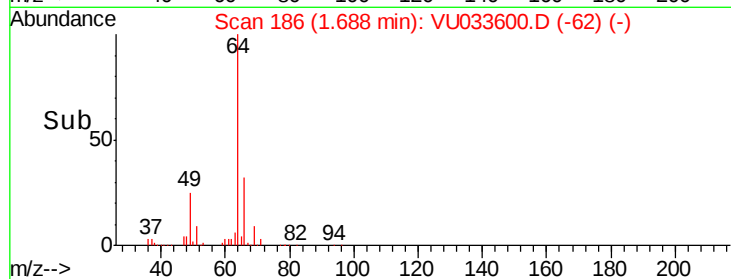
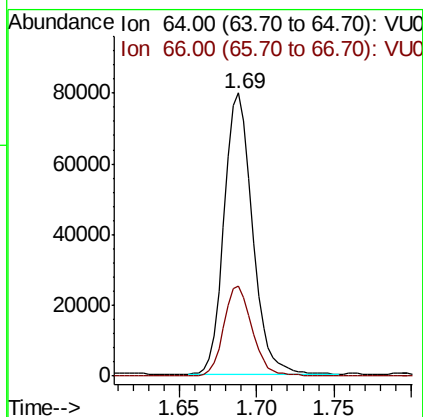
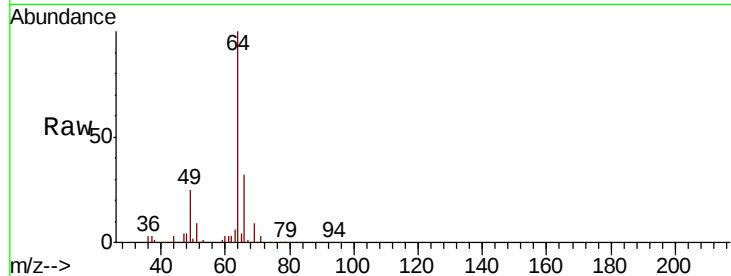




#8
Chloroethane
Concen: 38.895 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

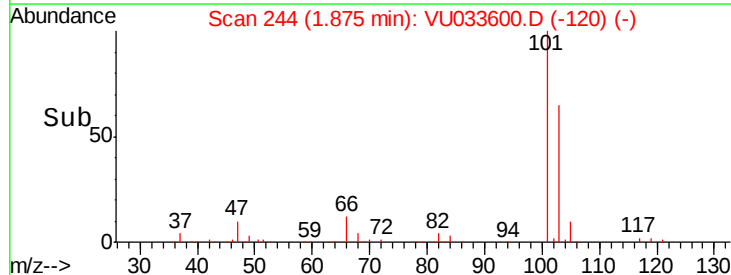
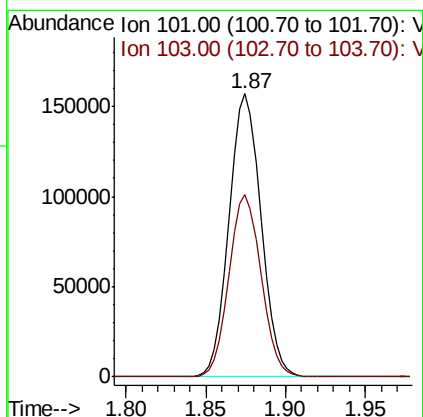
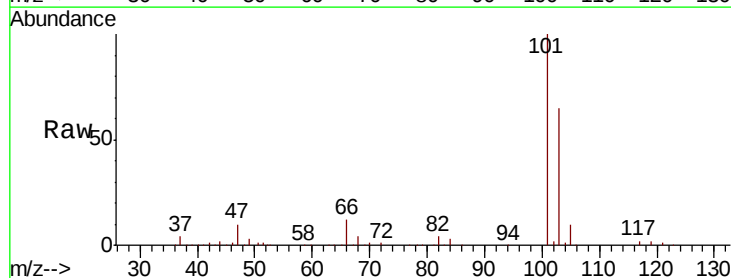
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

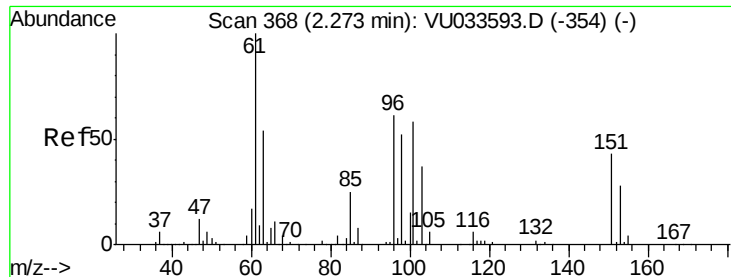
Tgt Ion: 64 Resp: 100298
Ion Ratio Lower Upper
64 100
66 31.7 22.9 42.5



#9
Trichlorofluoromethane
Concen: 50.062 ug/L
RT: 1.87 min Scan# 244
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

Tgt Ion: 101 Resp: 214096
Ion Ratio Lower Upper
101 100
103 64.7 51.0 76.4





#10

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

Concen: 50.496 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

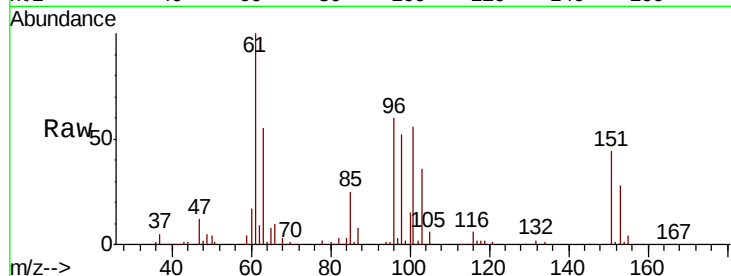
Tgt Ion: 101 Resp: 109679

Ion Ratio Lower Upper

101 100

85 43.7 34.3 51.5

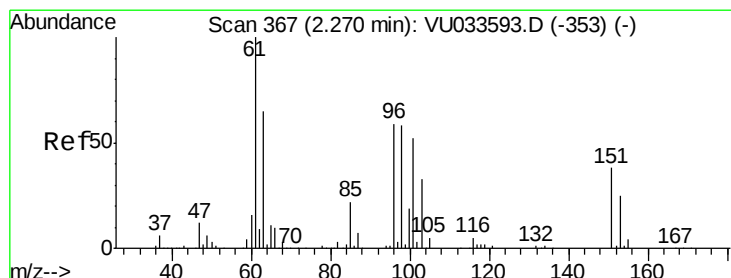
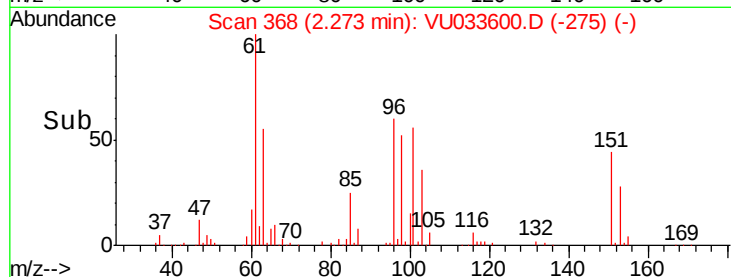
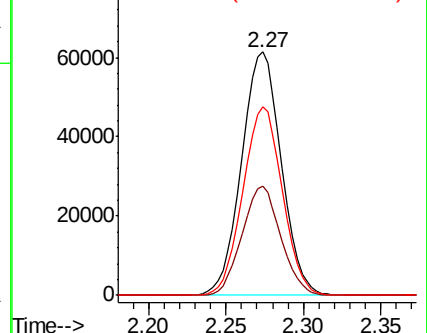
151 76.9 60.2 90.4



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: 50.249 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

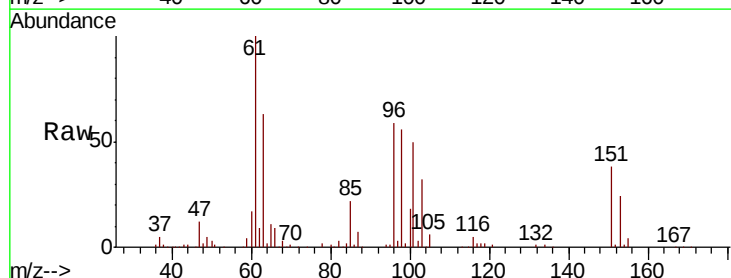
Tgt Ion: 96 Resp: 106132

Ion Ratio Lower Upper

96 100

61 170.5 119.1 221.3

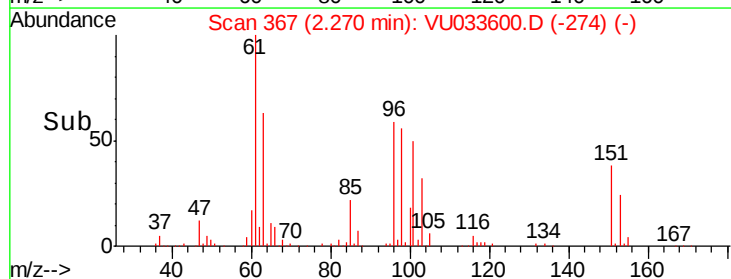
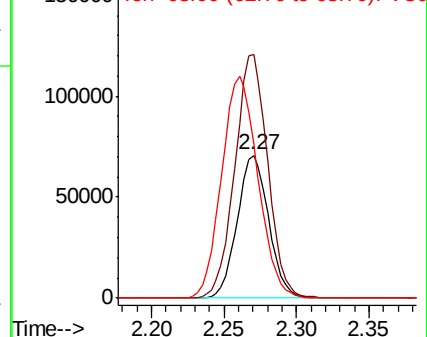
63 108.2 77.9 144.7

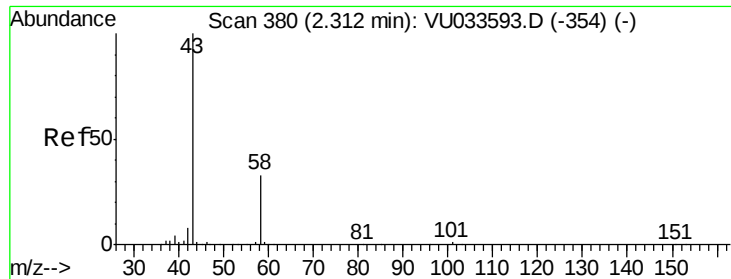


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 100.933 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

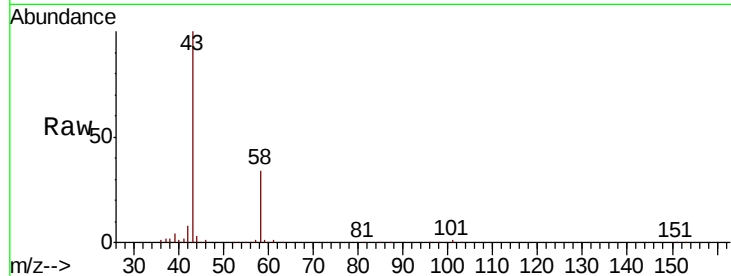
VSTD05048

Tgt Ion: 43 Resp: 168316

Ion Ratio Lower Upper

43 100

58 33.4 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033593.D (-354) (-)

Ion 58.00 (57.70 to 58.70): VU033593.D (-354) (-)

2.31

100000

80000

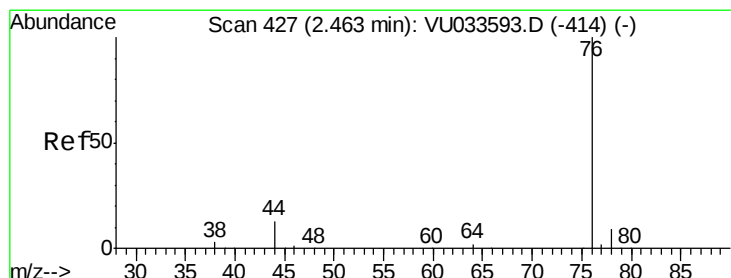
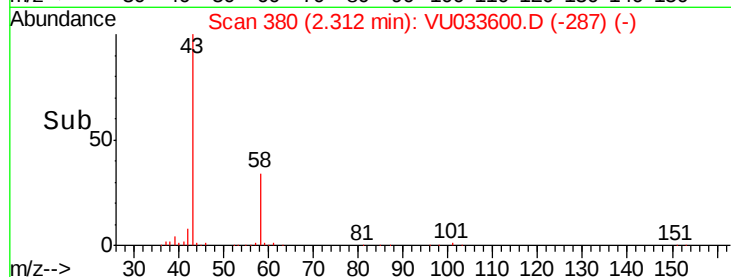
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 49.810 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033600.D

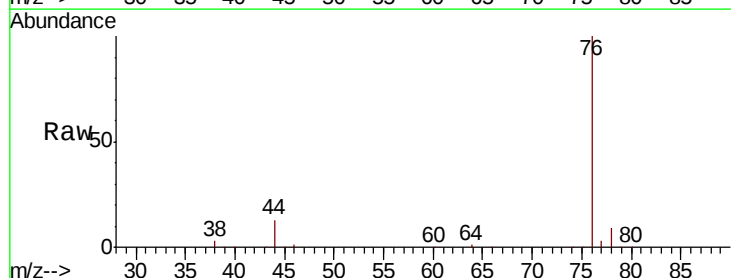
Acq: 05 Aug 2019 15:35

Tgt Ion: 76 Resp: 326105

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033593.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033593.D (-414) (-)

2.46

200000

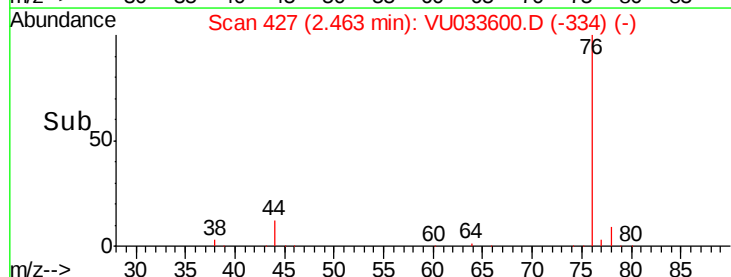
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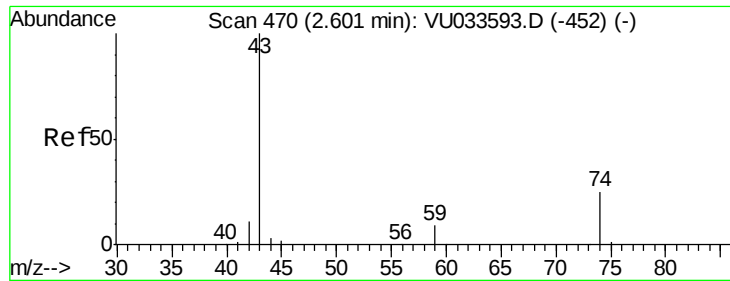
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Time-->

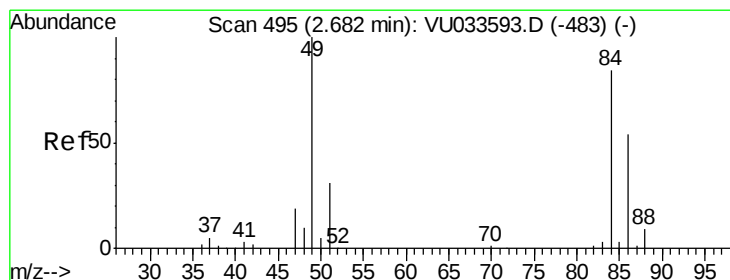
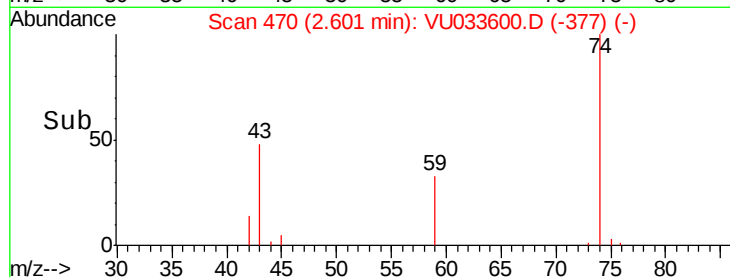
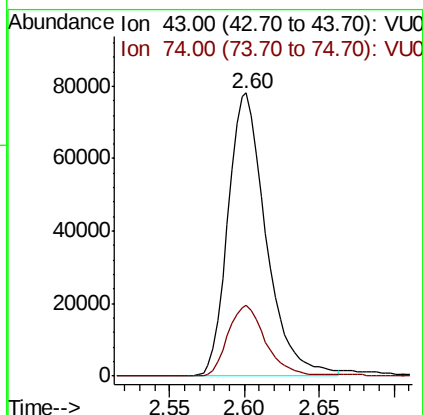
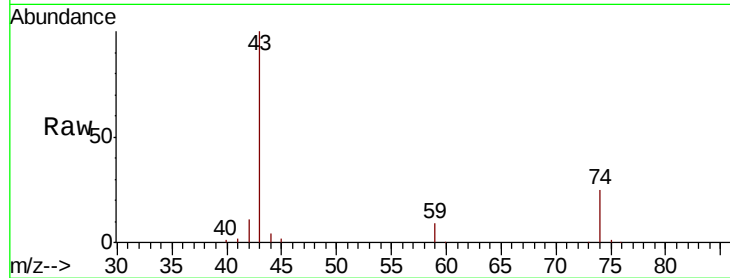




#15
Methyl Acetate
Concen: 50.628 ug/L
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

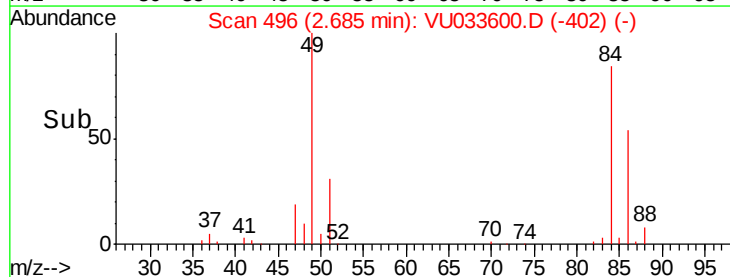
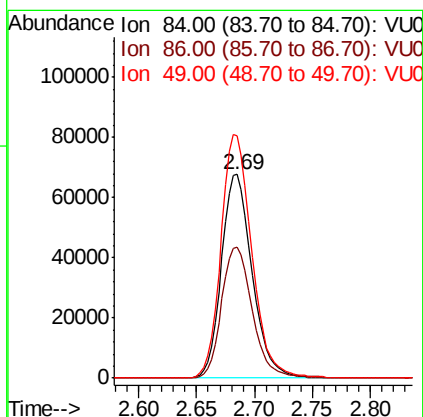
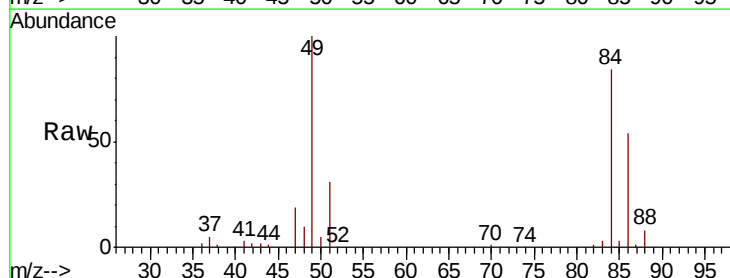
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

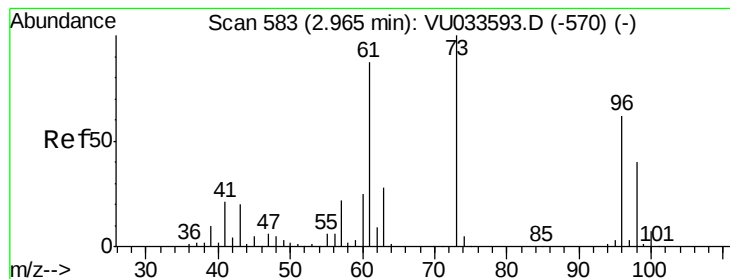
Tgt Ion: 43 Resp: 137855
Ion Ratio Lower Upper
43 100
74 25.1 19.8 29.6



#16
Methylene chloride
Concen: 50.483 ug/L
RT: 2.69 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

Tgt Ion: 84 Resp: 124396
Ion Ratio Lower Upper
84 100
86 64.5 44.9 83.5
49 118.9 83.4 155.0





#17

trans-1,2-Dichloroethene

Concen: 49.739 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

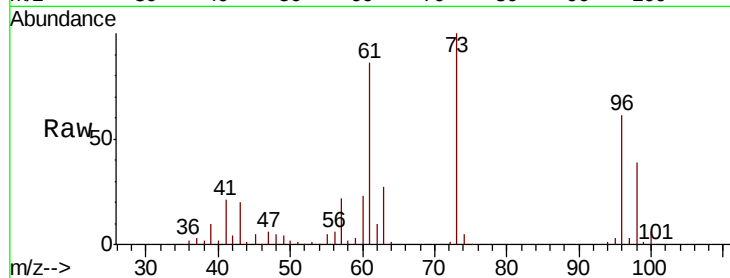
Tgt Ion: 96 Resp: 112077

Ion Ratio Lower Upper

96 100

61 141.0 98.8 183.4

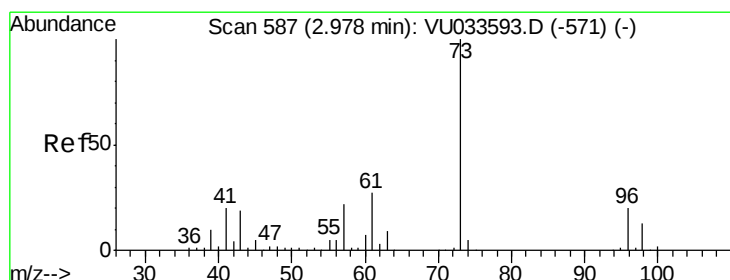
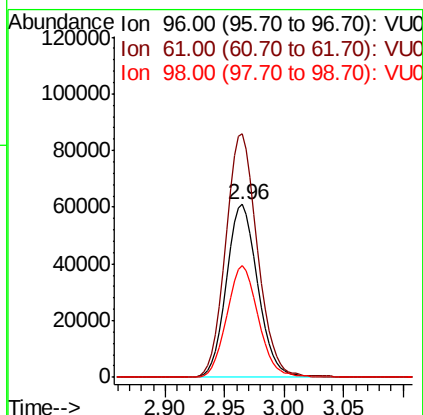
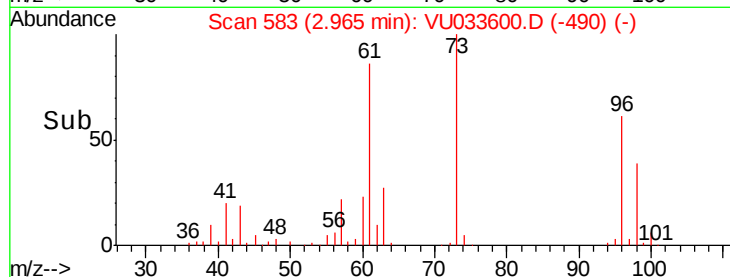
98 64.6 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU033600.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033600.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033600.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 51.284 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

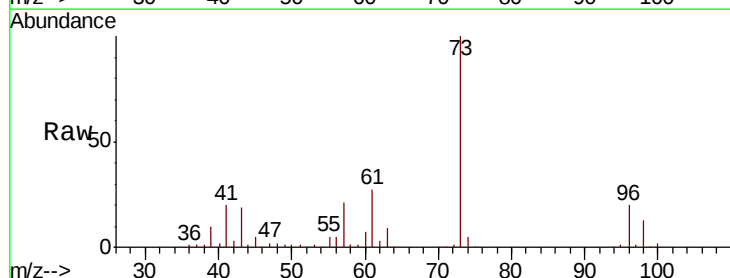
Tgt Ion: 73 Resp: 357866

Ion Ratio Lower Upper

73 100

43 19.2 15.8 23.6

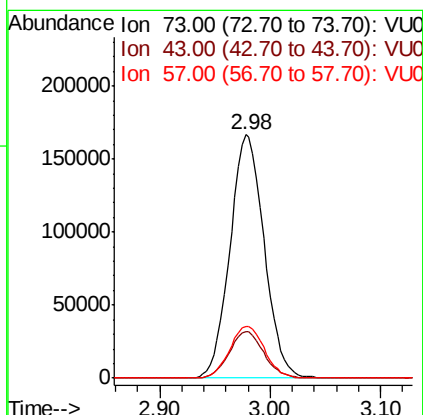
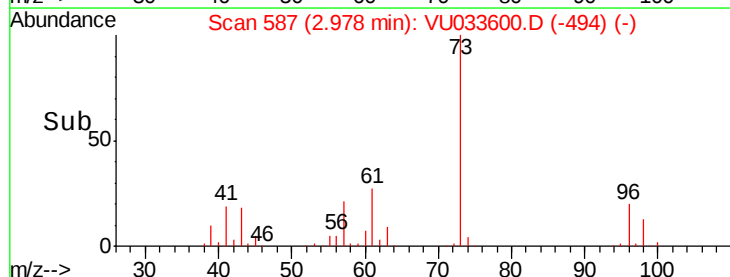
57 21.7 17.5 26.3

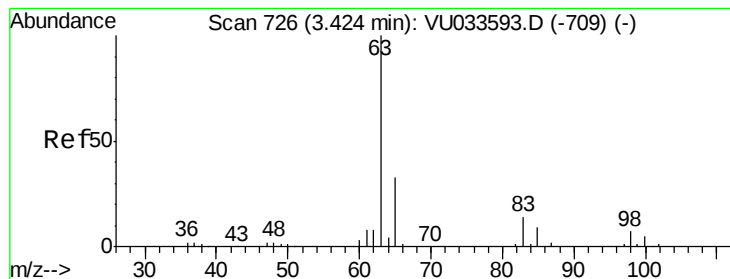


Abundance Ion 73.00 (72.70 to 73.70): VU033600.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033600.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033600.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 50.743 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

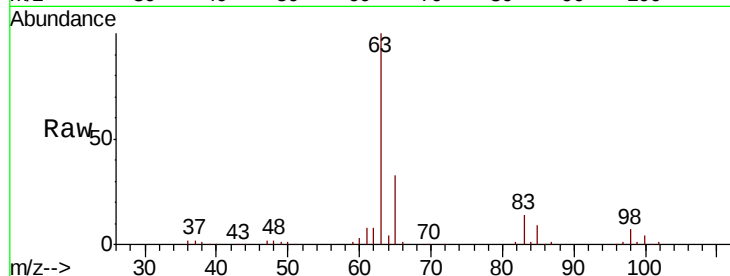
Tgt Ion: 63 Resp: 215218

Ion Ratio Lower Upper

63 100

65 32.5 22.9 42.5

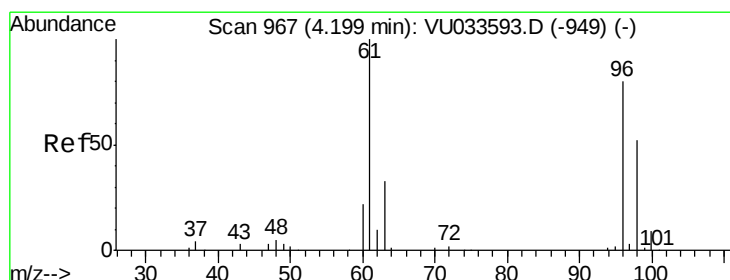
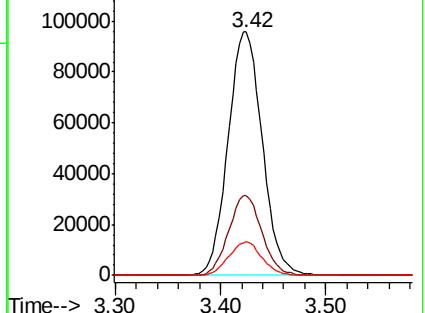
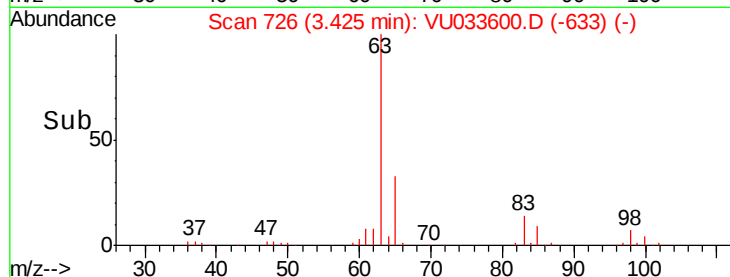
83 13.8 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VU033593.D (-709) (-)

Ion 65.00 (64.70 to 65.70): VU033593.D (-709) (-)

Ion 83.00 (82.70 to 83.70): VU033593.D (-709) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.362 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

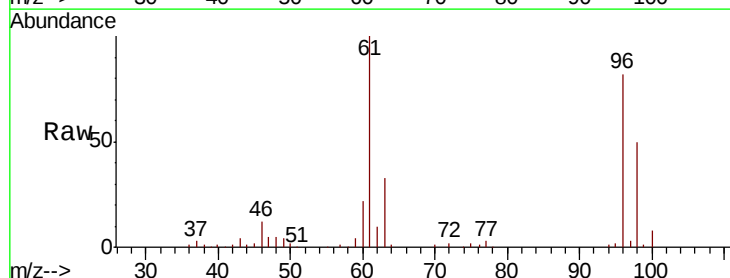
Tgt Ion: 96 Resp: 130141

Ion Ratio Lower Upper

96 100

61 122.5 88.2 163.8

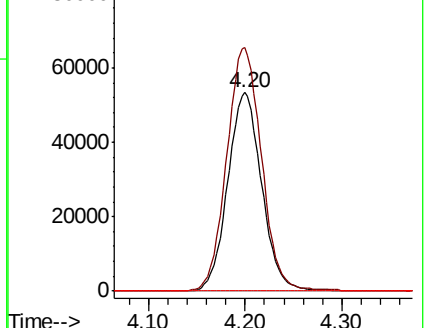
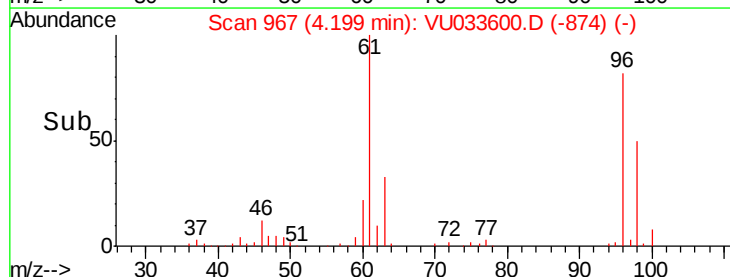
68 0.0 0.0 0.0

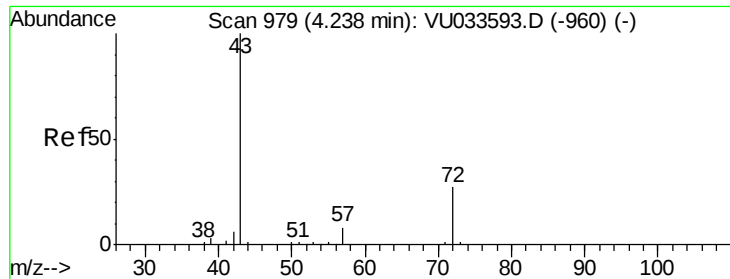


Abundance Ion 96.00 (95.70 to 96.70): VU033593.D (-949) (-)

Ion 61.00 (60.70 to 61.70): VU033593.D (-949) (-)

Ion 68.00 (67.70 to 68.70): VU033593.D (-949) (-)





#22

2-Butanone

Concen: 104.687 ug/L

RT: 4.23 min Scan# 978

Delta R.T. -0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

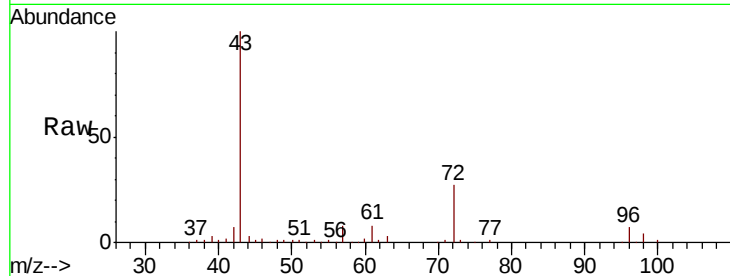
VSTD05048

Tgt Ion: 43 Resp: 219278

Ion Ratio Lower Upper

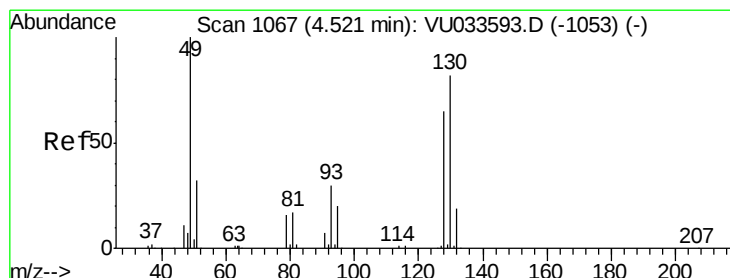
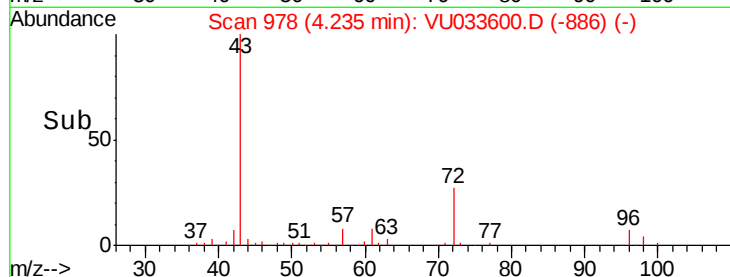
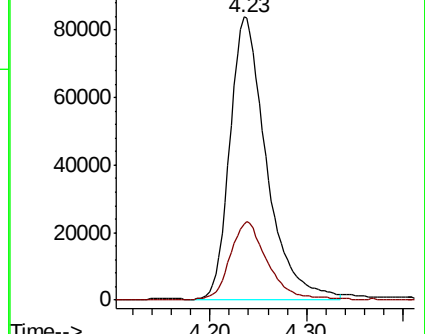
43 100

72 28.4 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU033593.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU033593.D (-960) (-)



#23

Bromochloromethane

Concen: 50.555 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Tgt Ion: 128 Resp: 65706

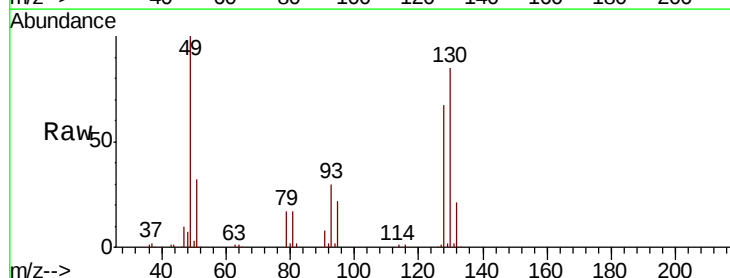
Ion Ratio Lower Upper

128 100

49 148.6 108.1 200.9

130 125.9 89.0 165.4

51 47.8 38.8 58.2

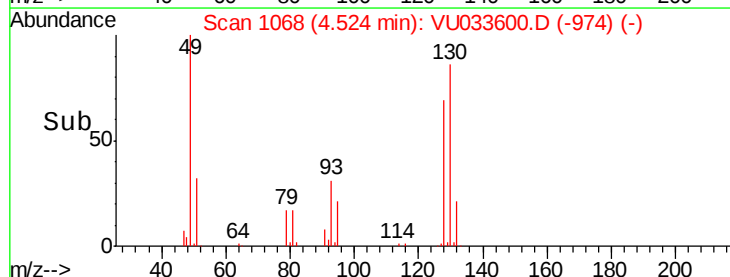
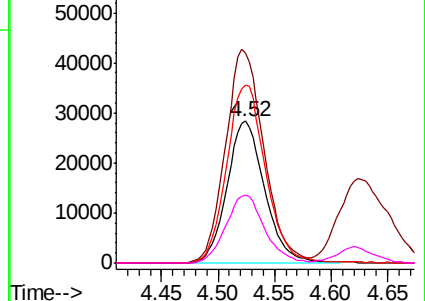


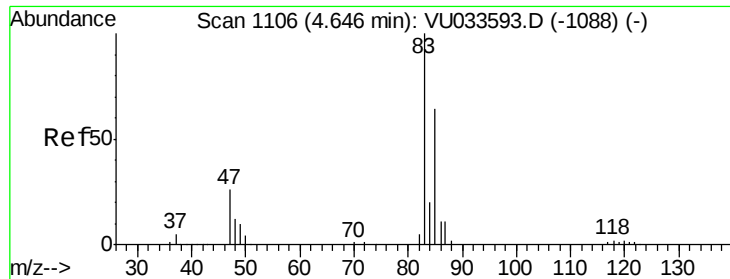
Abundance Ion 128.00 (127.70 to 128.70): VU033593.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033593.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033593.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033593.D (-1053) (-)

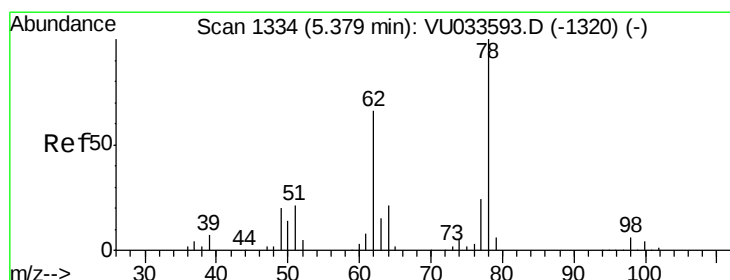
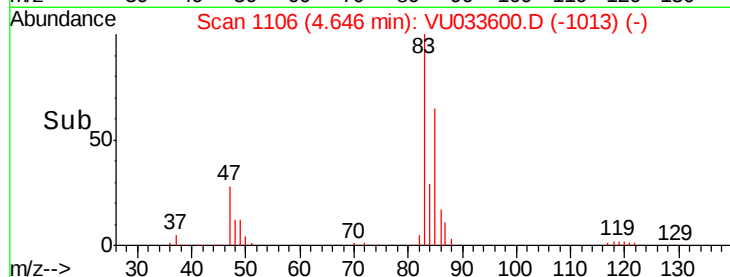
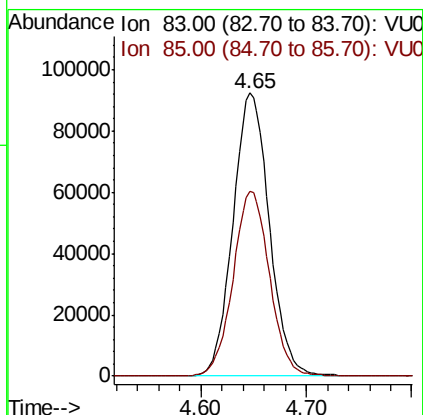
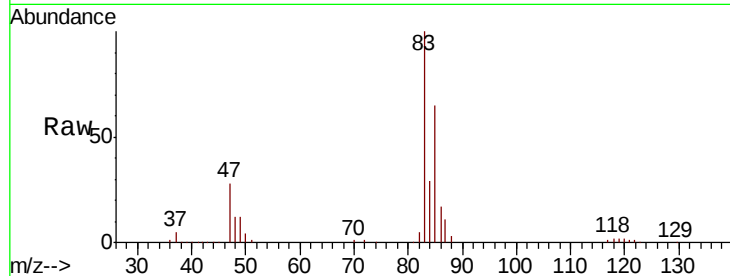




#25
Chloroform
Concen: 50.494 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

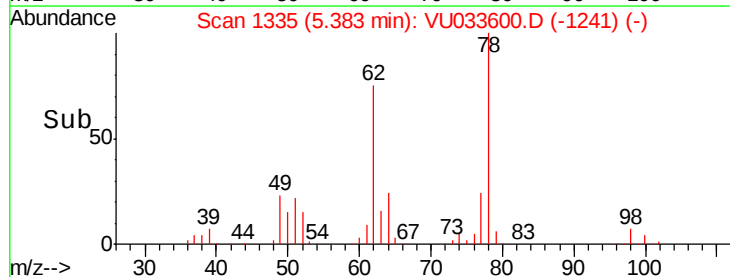
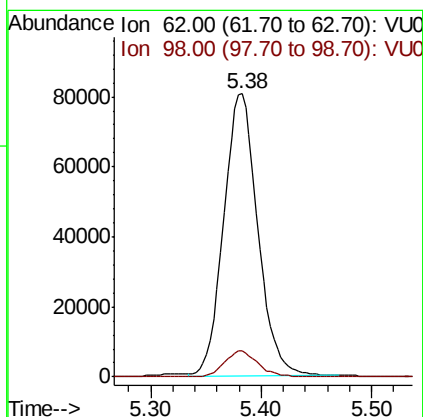
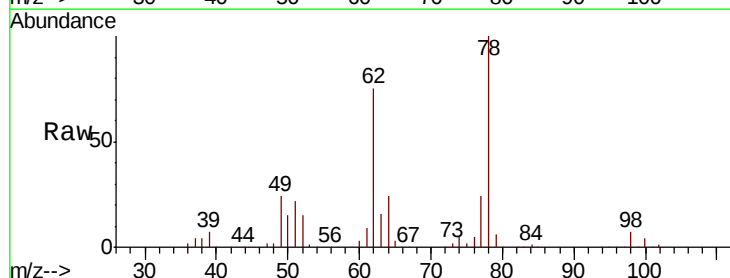
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

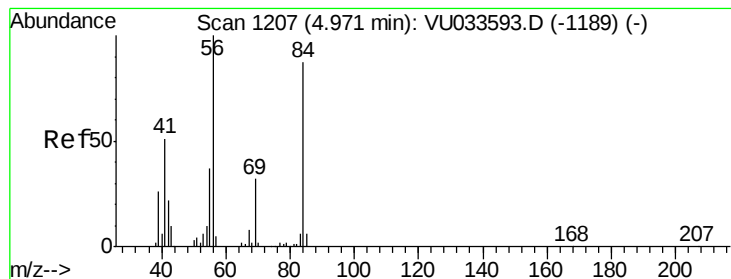
Tgt Ion: 83 Resp: 221288
Ion Ratio Lower Upper
83 100
85 65.2 44.9 83.3



#27
1,2-Dichloroethane
Concen: 50.477 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

Tgt Ion: 62 Resp: 172828
Ion Ratio Lower Upper
62 100
98 9.2 7.0 10.4





#29

Cyclohexane

Concen: 51.917 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

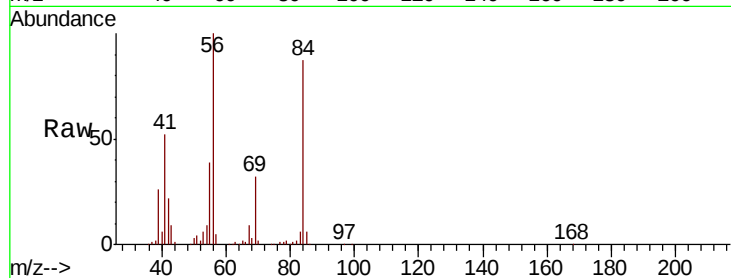
Tgt Ion: 56 Resp: 186594

Ion Ratio Lower Upper

56 100

69 31.1 24.7 37.1

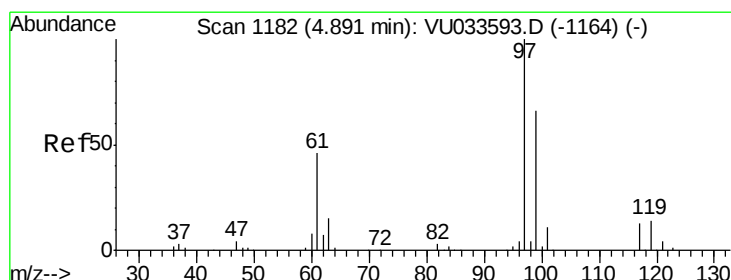
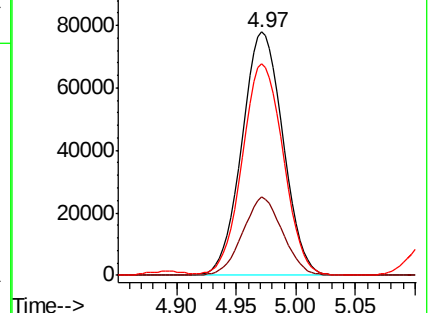
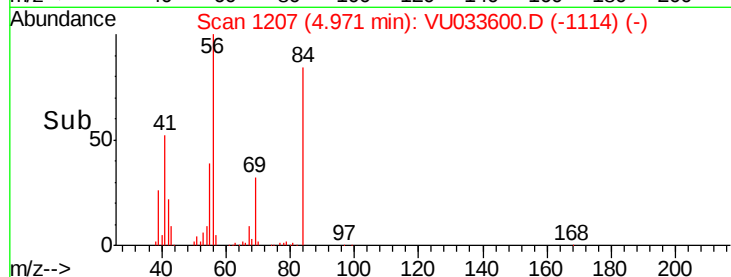
84 87.1 69.8 104.8



Abundance Ion 56.00 (55.70 to 56.70): VU033600.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU033600.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU033600.D (-1114) (-)



#30

1,1,1-Trichloroethane

Concen: 50.308 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

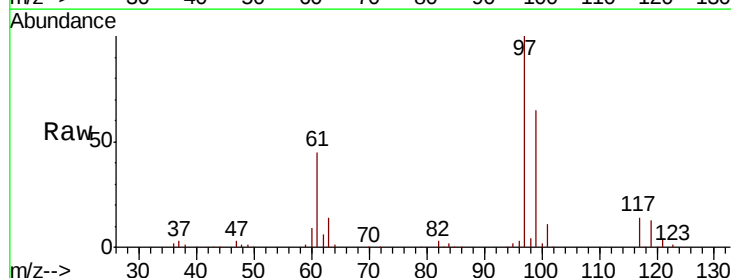
Tgt Ion: 97 Resp: 185712

Ion Ratio Lower Upper

97 100

99 65.3 51.8 77.6

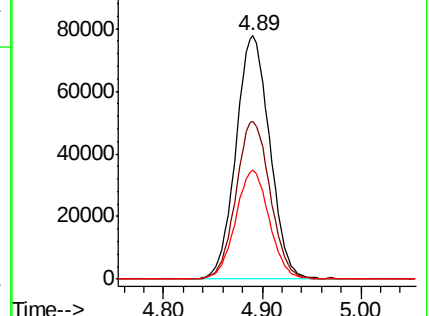
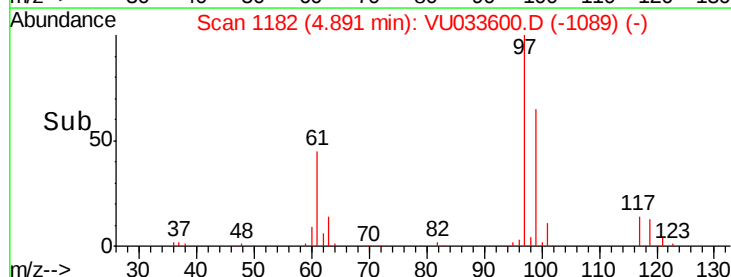
61 44.6 36.2 54.2

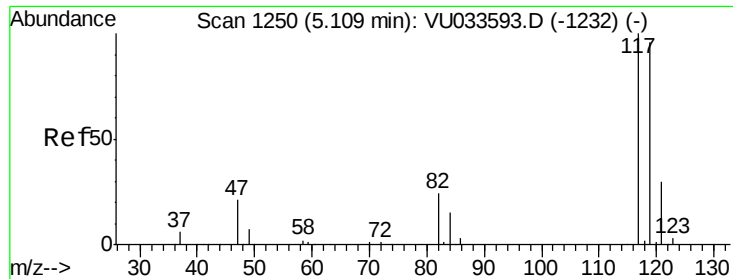


Abundance Ion 97.00 (96.70 to 97.70): VU033600.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VU033600.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VU033600.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 50.924 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

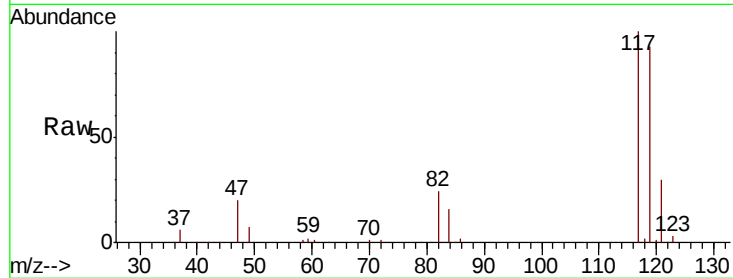
VSTD05048

Tgt Ion:117 Resp: 165013

Ion Ratio Lower Upper

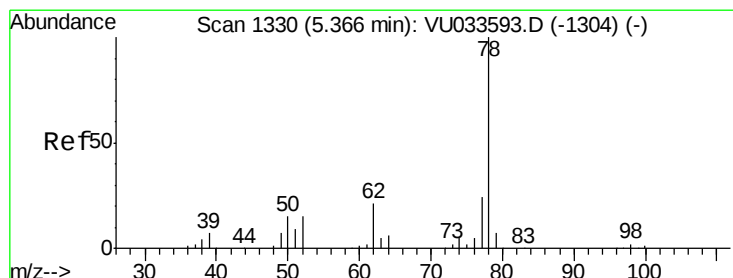
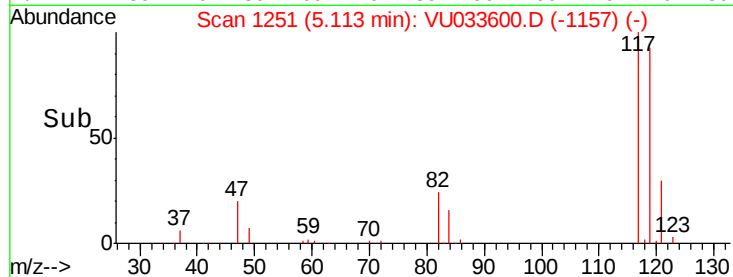
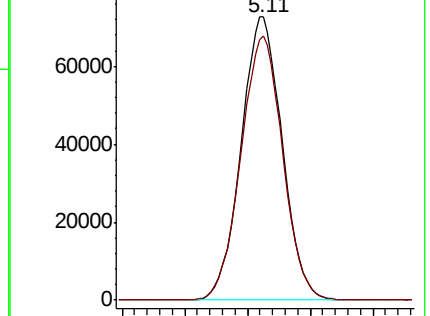
117 100

119 95.0 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.449 ug/L

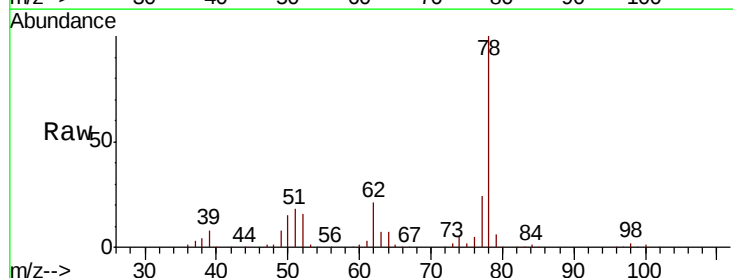
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

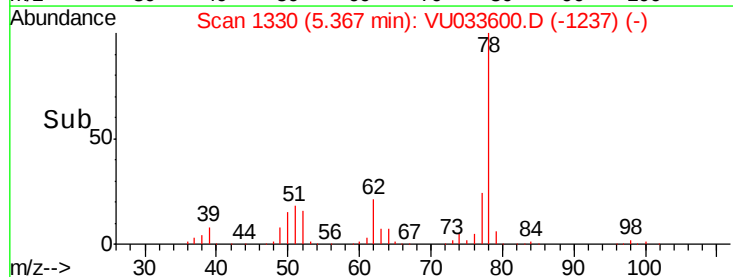
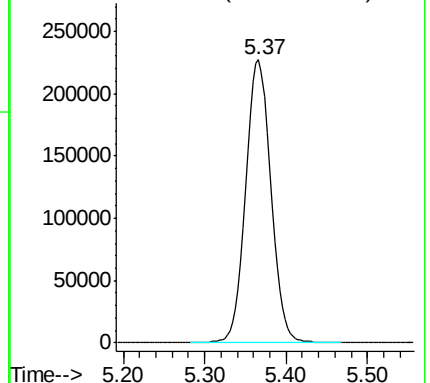
Lab File: VU033600.D

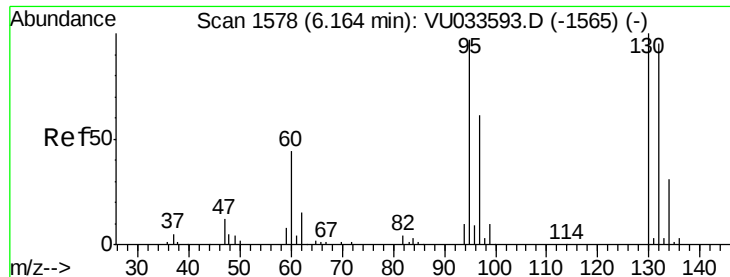
Acq: 05 Aug 2019 15:35

Tgt Ion: 78 Resp: 483324



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.296 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleID :

VSTD05048

Tgt Ion: 95 Resp: 121700

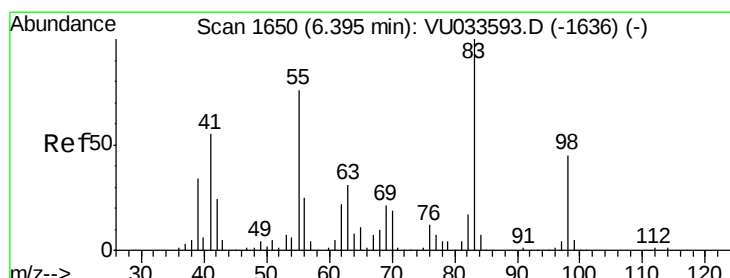
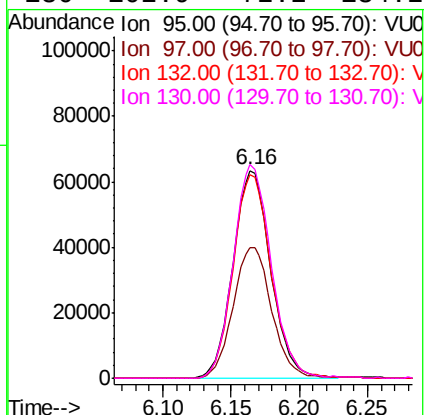
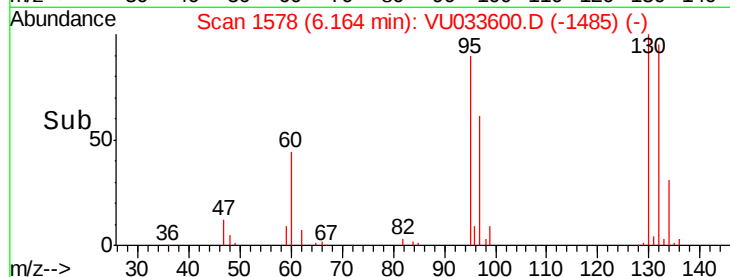
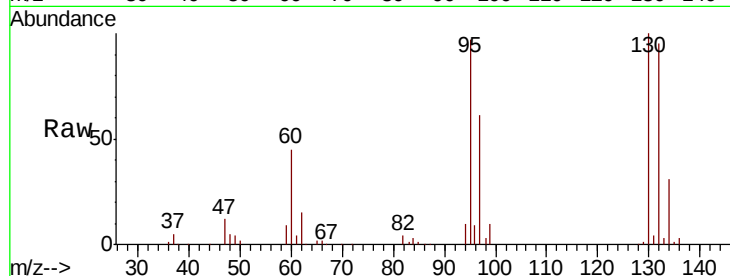
Ion Ratio Lower Upper

95 100

97 63.1 43.8 81.4

132 97.8 68.6 127.4

130 102.9 72.2 134.2



#35

Methylcyclohexane

Concen: 52.853 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

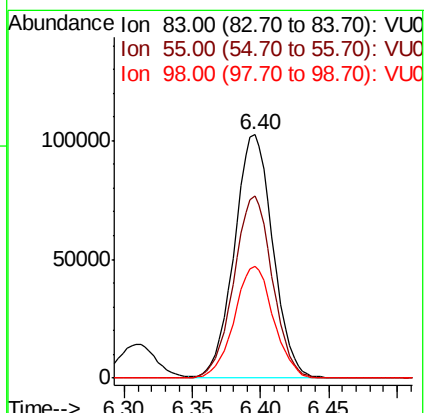
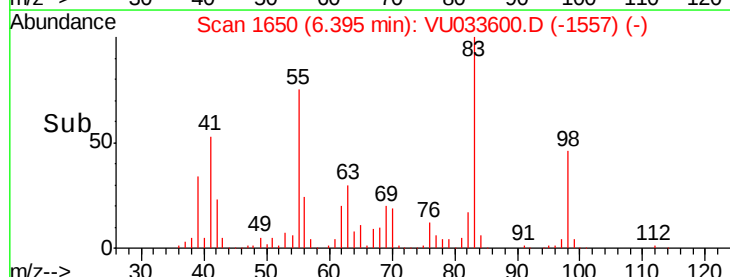
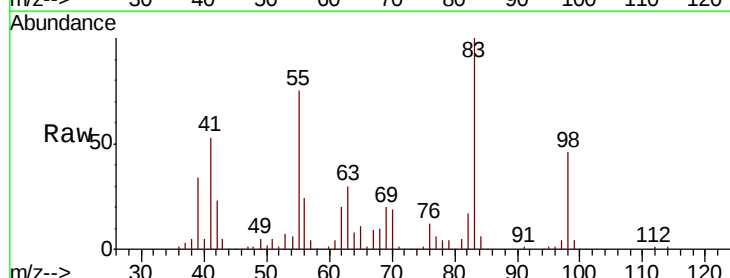
Tgt Ion: 83 Resp: 201322

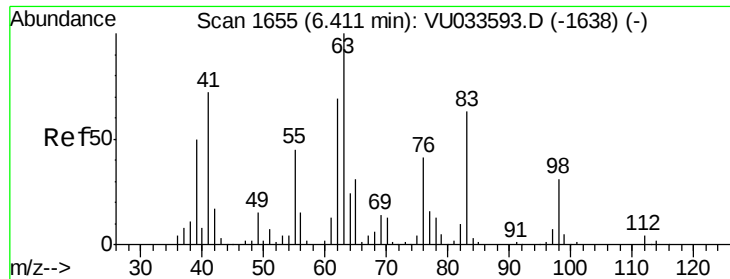
Ion Ratio Lower Upper

83 100

55 75.1 60.1 90.1

98 46.5 36.8 55.2

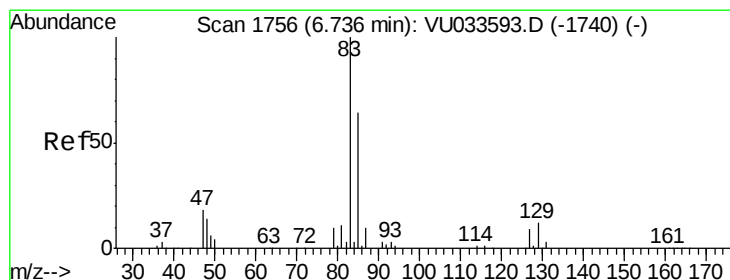
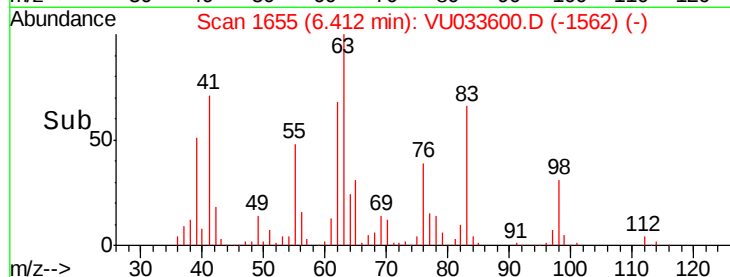
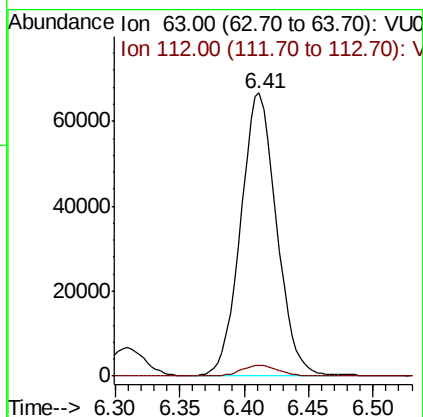
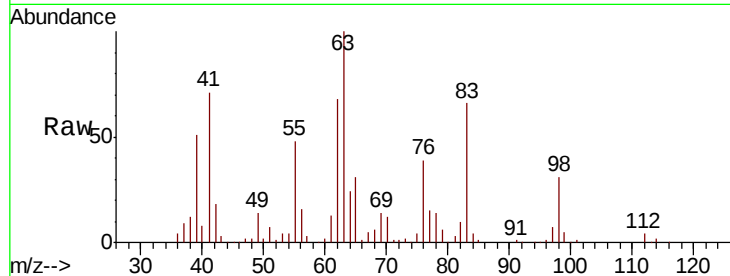




#37
 1,2-Dichloropropane
 Concen: 50.177 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

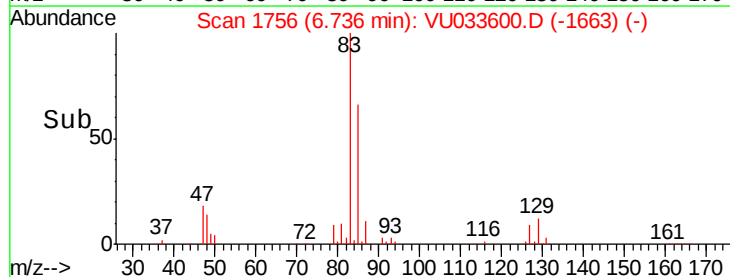
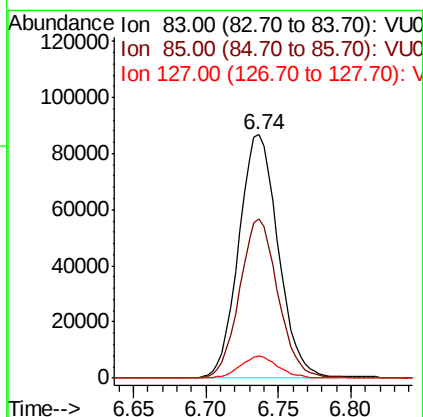
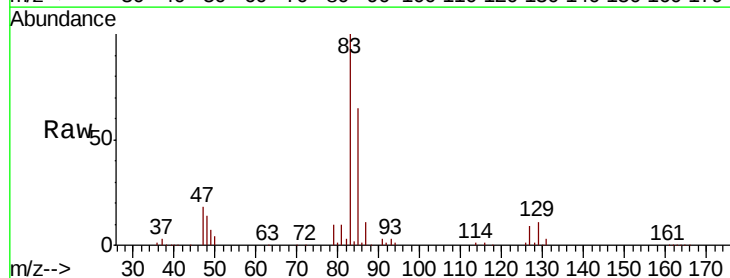
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

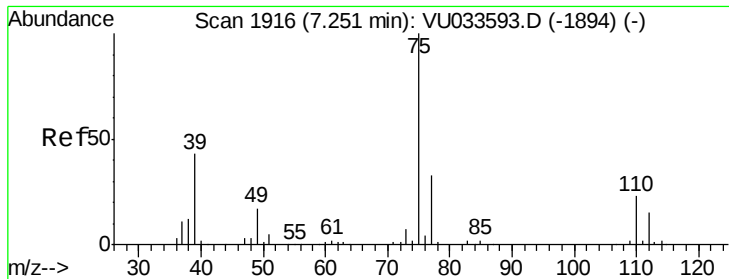
Tgt Ion: 63 Resp: 128739
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 50.763 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

Tgt Ion: 83 Resp: 164166
 Ion Ratio Lower Upper
 83 100
 85 65.3 44.9 83.5
 127 9.1 7.0 10.4

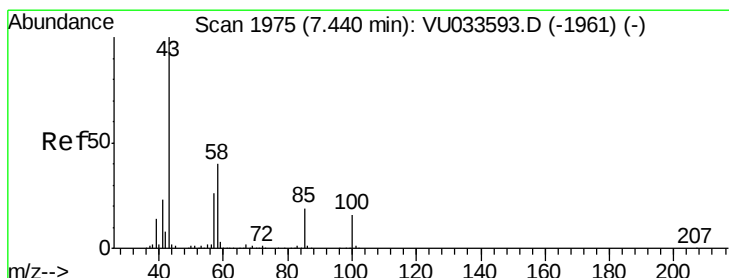
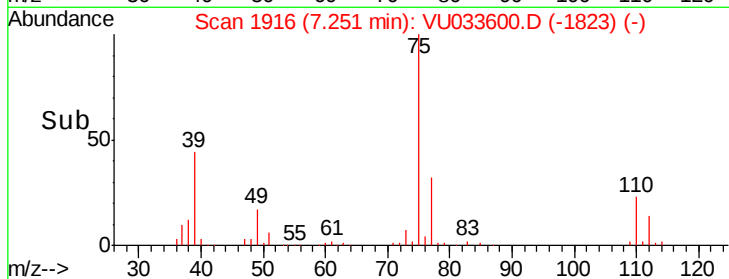
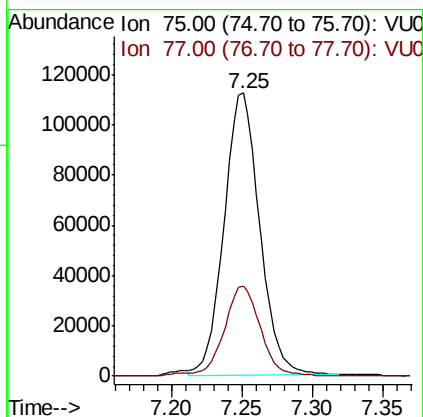
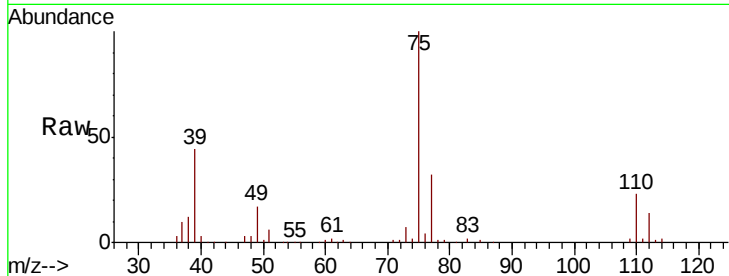




#39
 cis-1,3-Dichloropropene
 Concen: 50.626 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

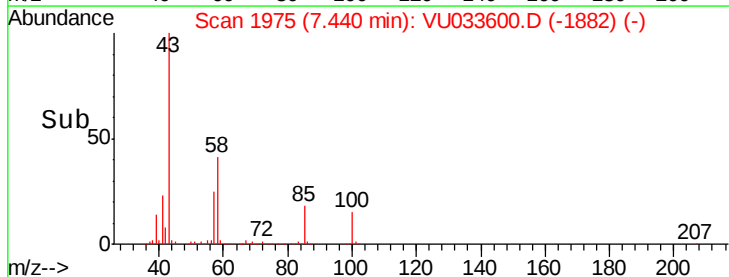
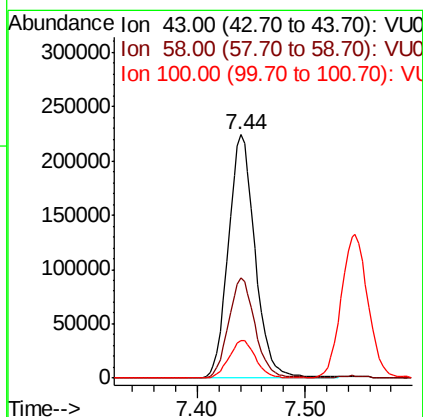
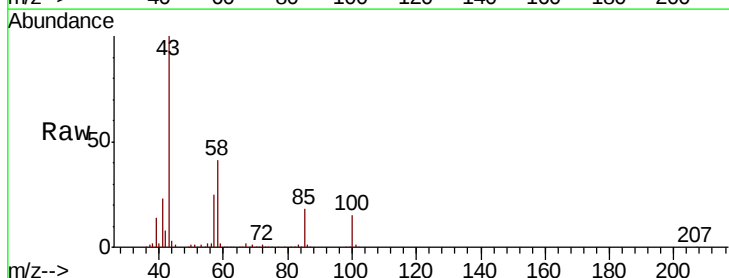
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

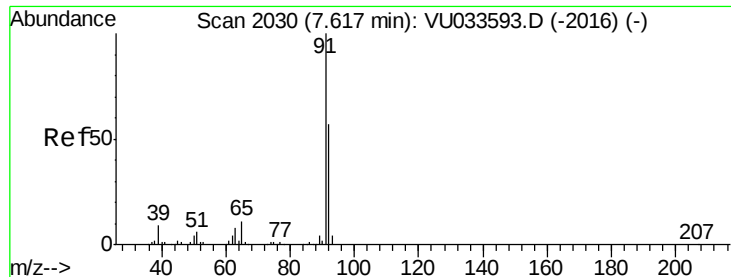
Tgt Ion: 75 Resp: 197527
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 105.683 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

Tgt Ion: 43 Resp: 388026
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.5 48.7
 100 15.5 12.6 18.8





#42

Toluene

Concen: 52.363 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

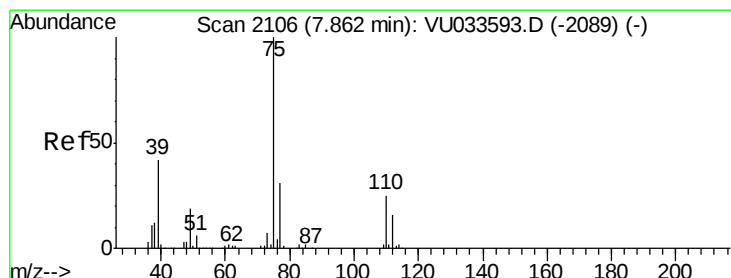
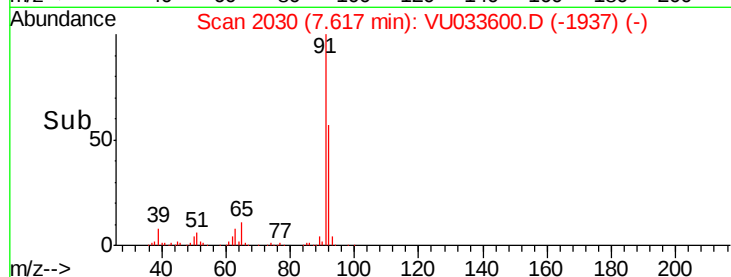
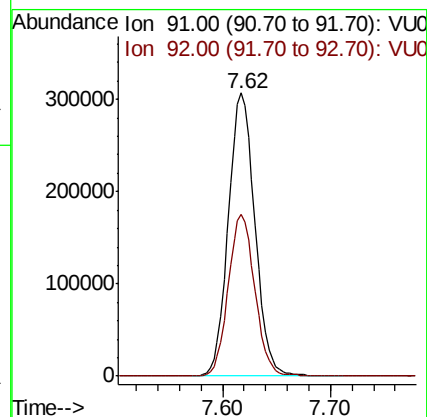
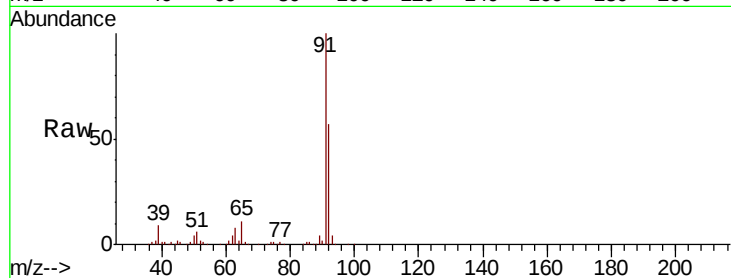
VSTD05048

Tgt Ion: 91 Resp: 525544

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 52.758 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033600.D

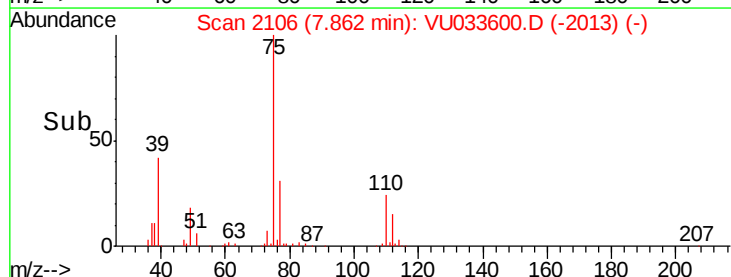
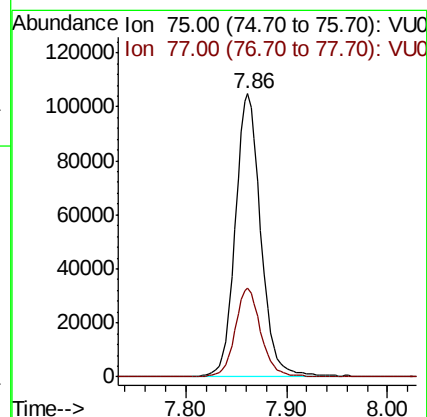
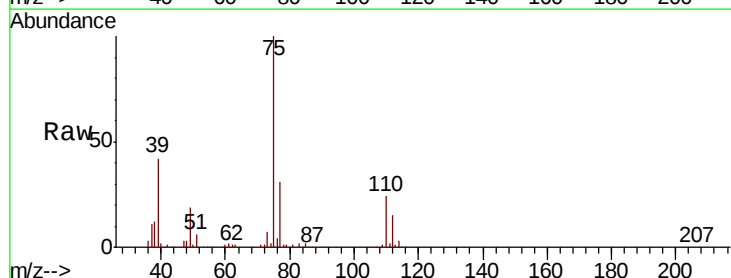
Acq: 05 Aug 2019 15:35

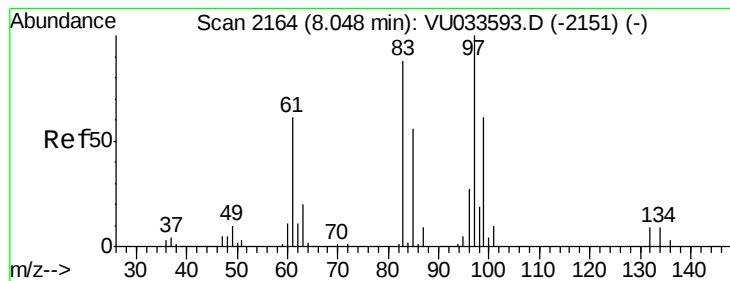
Tgt Ion: 75 Resp: 185224

Ion Ratio Lower Upper

75 100

77 31.3 21.6 40.2





#45

1,1,2-Trichloroethane

Concen: 50.108 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 97 Resp: 120290

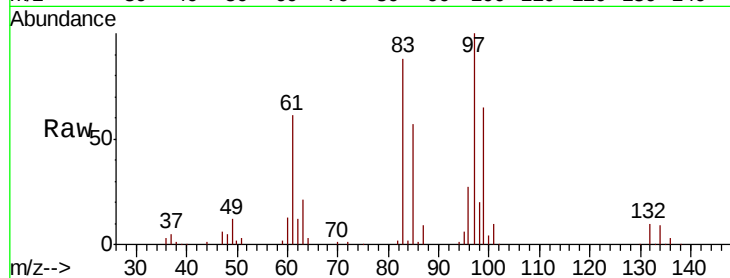
Ion Ratio Lower Upper

97 100

99 64.8 42.8 79.6

83 88.5 61.3 113.9

85 57.0 39.1 72.5

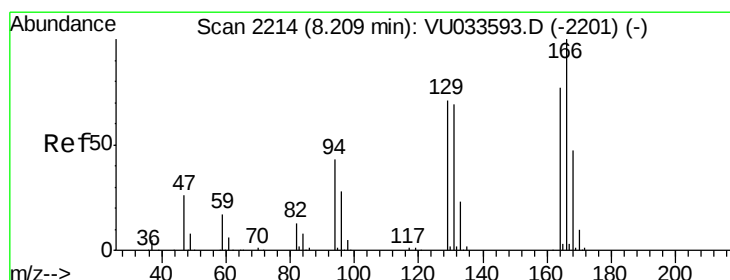
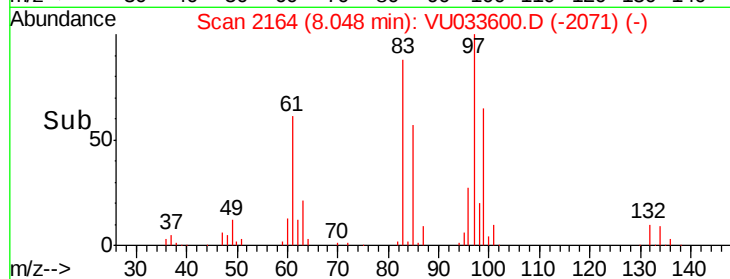
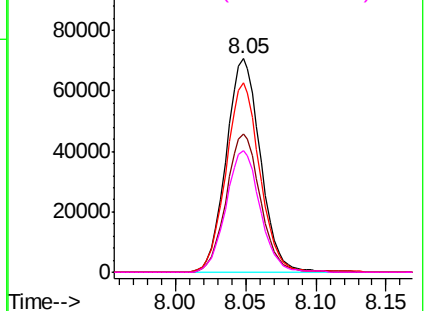


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 51.413 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Tgt Ion: 164 Resp: 102065

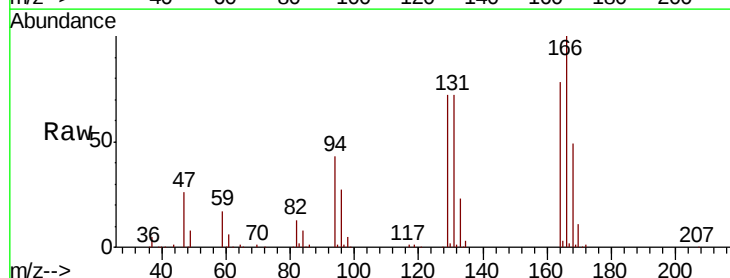
Ion Ratio Lower Upper

164 100

129 92.2 64.1 119.1

131 92.2 62.9 116.7

166 127.5 90.5 168.1

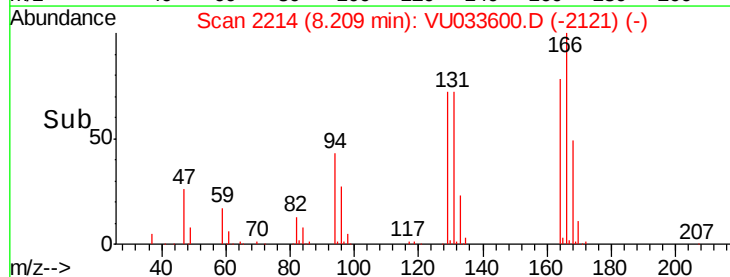
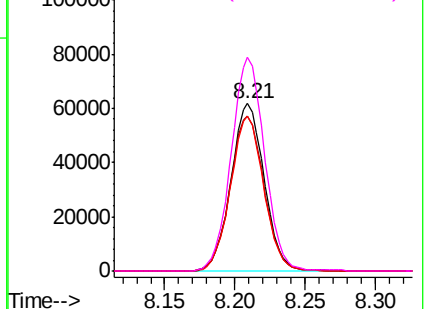


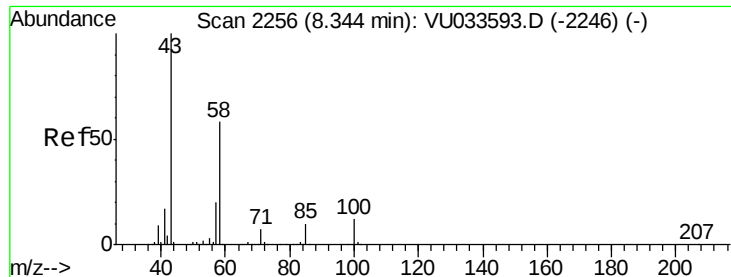
Abundance Ion 164.00 (163.70 to 164.70): V

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

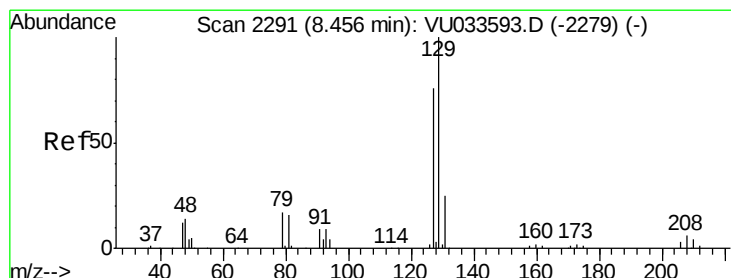
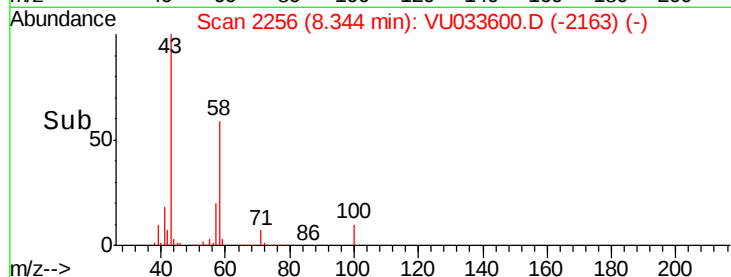
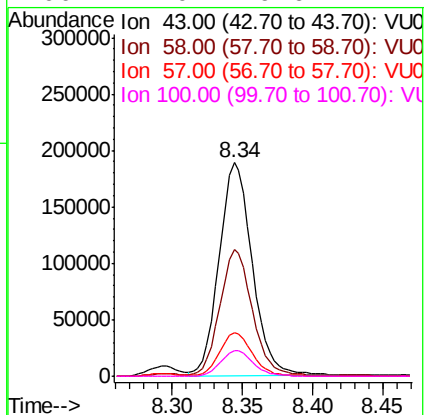
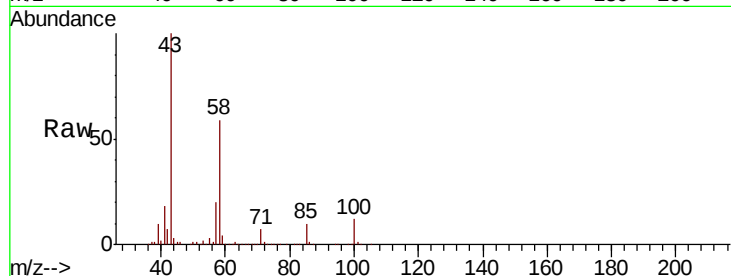




#48
2-Hexanone
Concen: 104.807 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

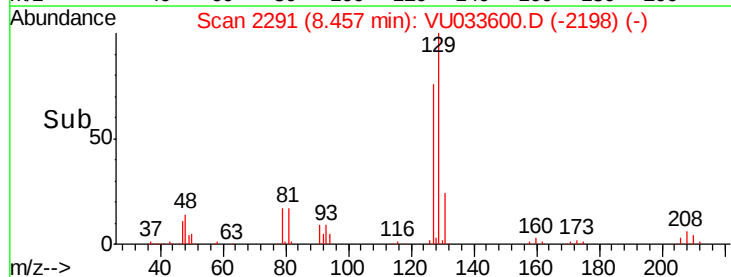
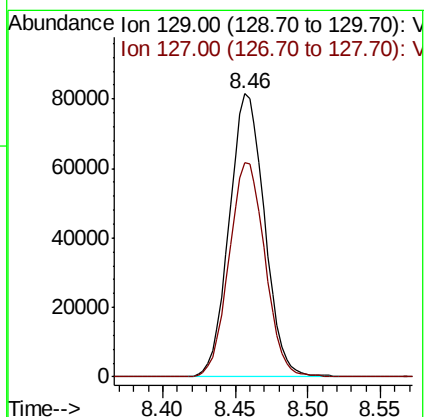
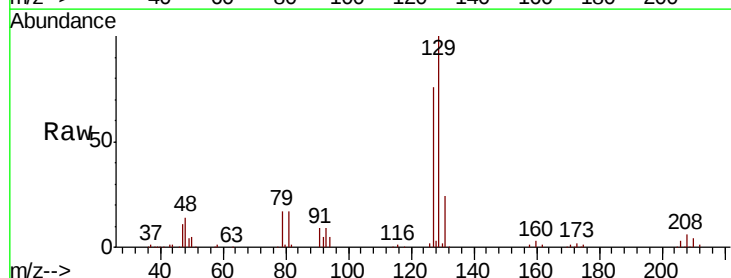
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

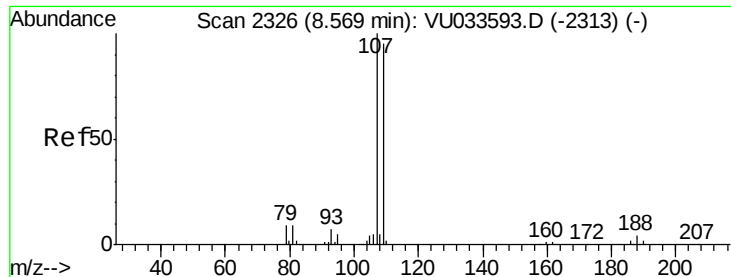
Tgt Ion:	43	Resp:	307304
Ion	Ratio	Lower	Upper
43	100		
58	58.6	45.2	67.8
57	20.5	15.4	23.2
100	12.0	9.6	14.4



#49
Dibromochloromethane
Concen: 51.247 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

Tgt Ion:	129	Resp:	138266
Ion	Ratio	Lower	Upper
129	100		
127	75.5	53.4	99.2

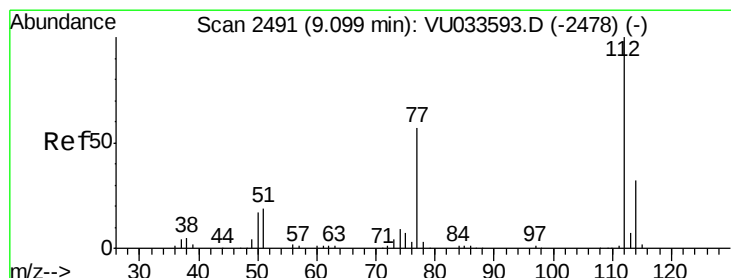
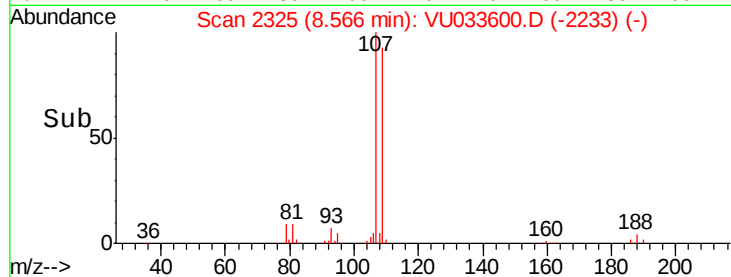
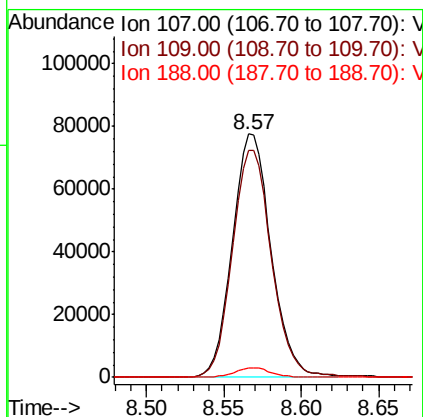
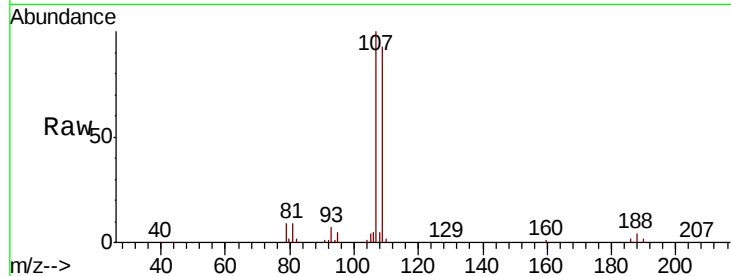




#50
 1,2-Dibromoethane
 Concen: 51.146 ug/L
 RT: 8.57 min Scan# 2325
 Delta R.T. -0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

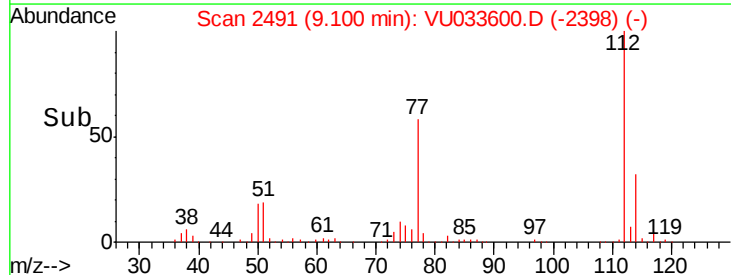
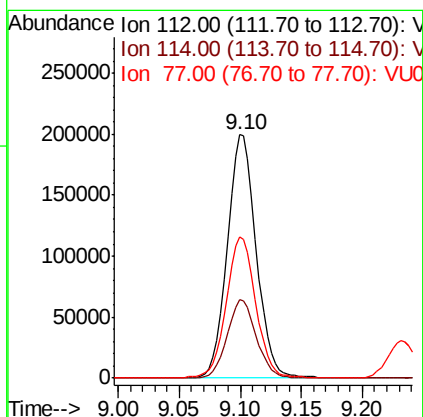
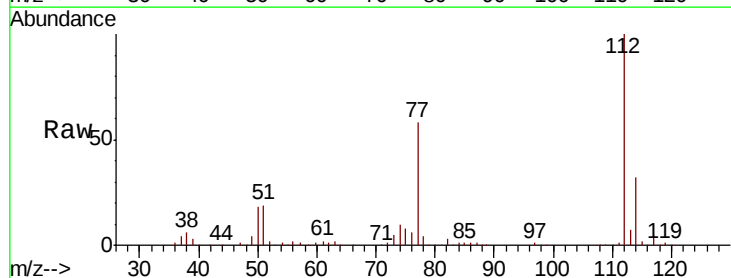
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

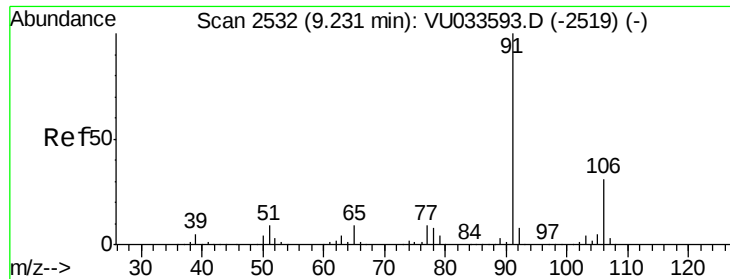
Tgt Ion:107 Resp: 134480
 Ion Ratio Lower Upper
 107 100
 109 93.2 66.5 123.5
 188 3.7 3.0 4.6



#51
 Chlorobenzene
 Concen: 50.492 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

Tgt Ion:112 Resp: 330904
 Ion Ratio Lower Upper
 112 100
 114 32.0 22.5 41.9
 77 57.9 46.1 69.1

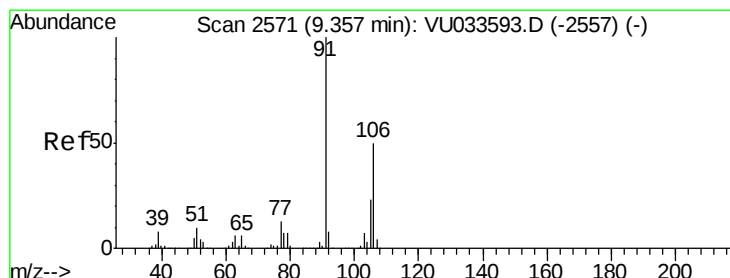
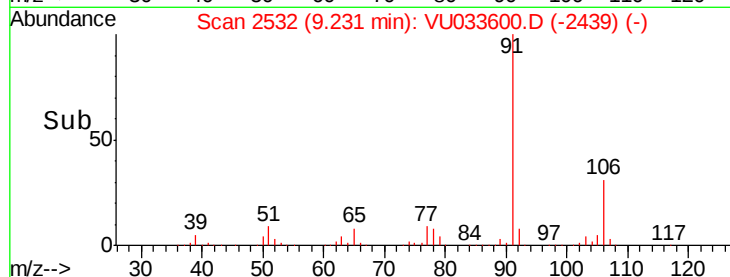
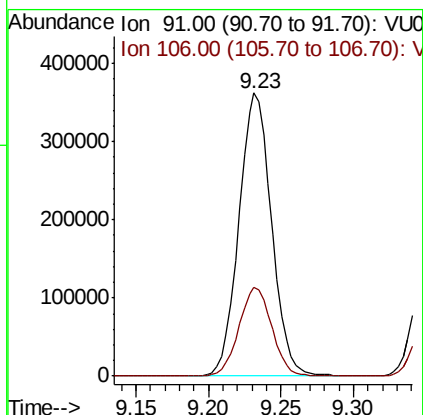
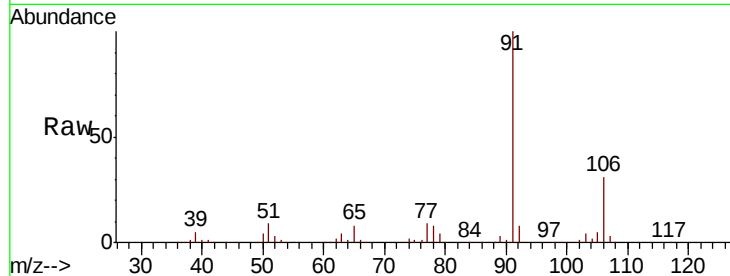




#52
Ethylbenzene
Concen: 52.041 ug/L
RT: 9.23 min Scan# 2532
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

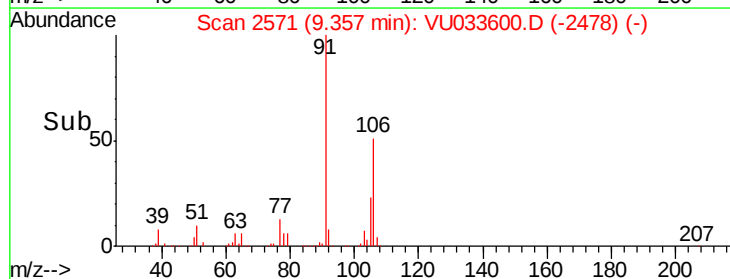
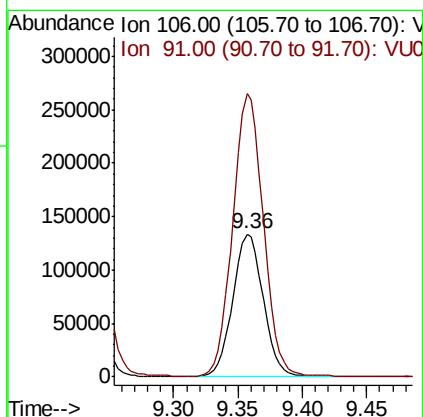
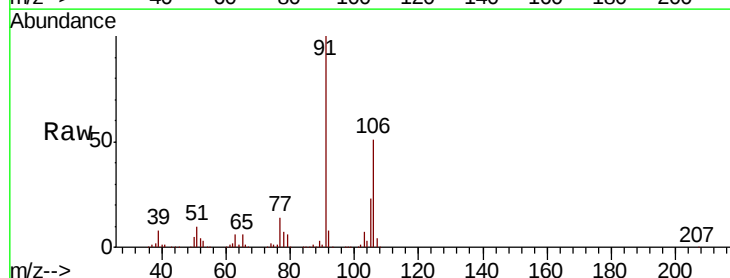
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

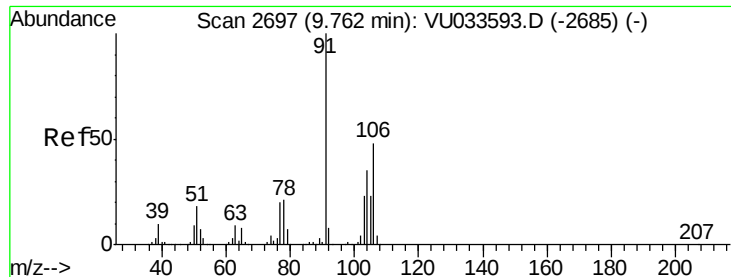
Tgt Ion: 91 Resp: 566288
Ion Ratio Lower Upper
91 100
106 31.4 21.8 40.4



#53
m,p-Xylene
Concen: 52.856 ug/L
RT: 9.36 min Scan# 2571
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

Tgt Ion: 106 Resp: 219036
Ion Ratio Lower Upper
106 100
91 198.0 141.3 262.5





#54

o-xylene

Concen: 52.823 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

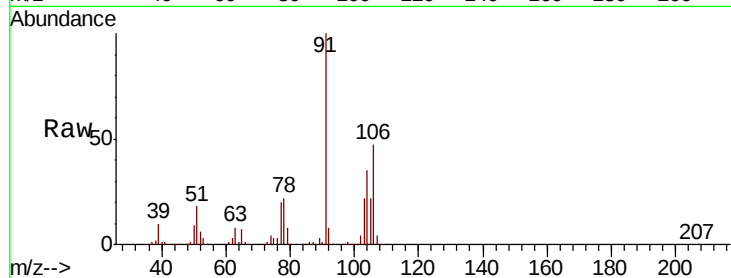
VSTD05048

Tgt Ion:106 Resp: 214416

Ion Ratio Lower Upper

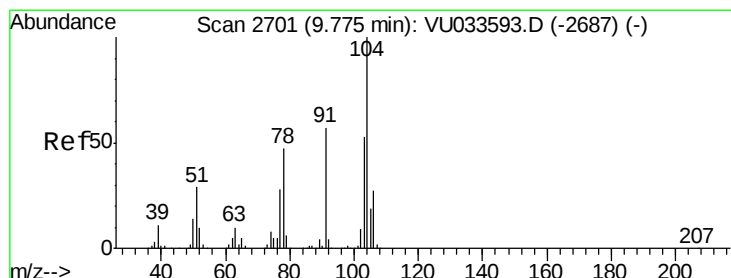
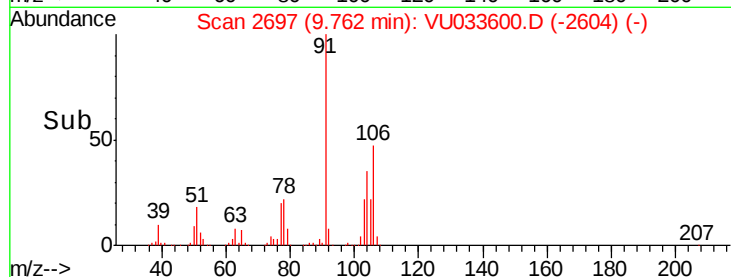
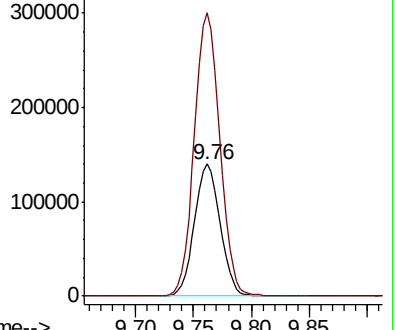
106 100

91 214.5 146.6 272.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.942 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033600.D

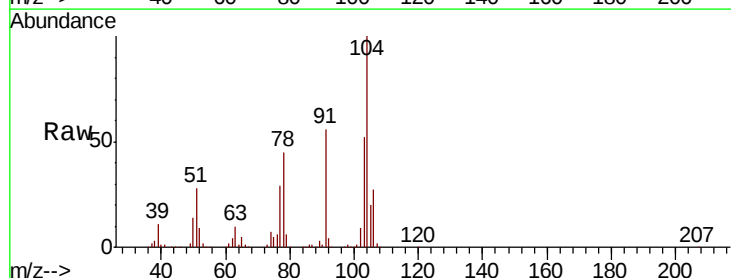
Acq: 05 Aug 2019 15:35

Tgt Ion:104 Resp: 364909

Ion Ratio Lower Upper

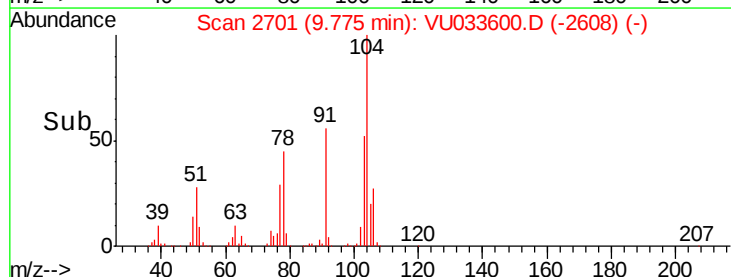
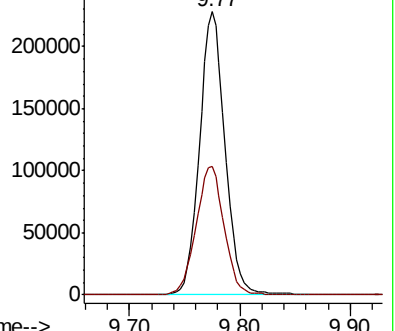
104 100

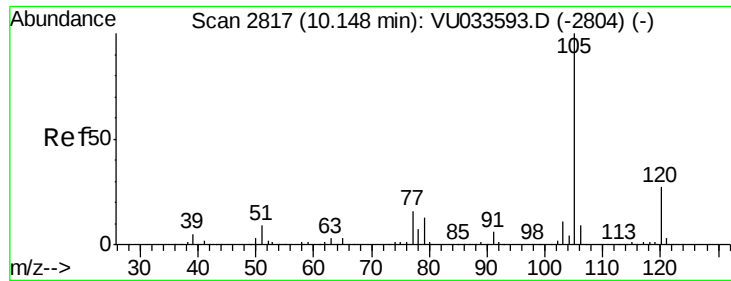
78 45.2 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.578 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

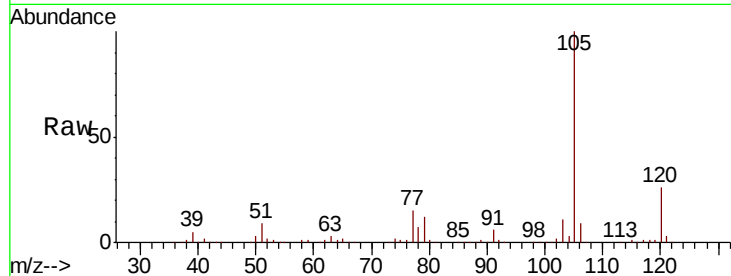
Tgt Ion: 105 Resp: 561057

Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.2

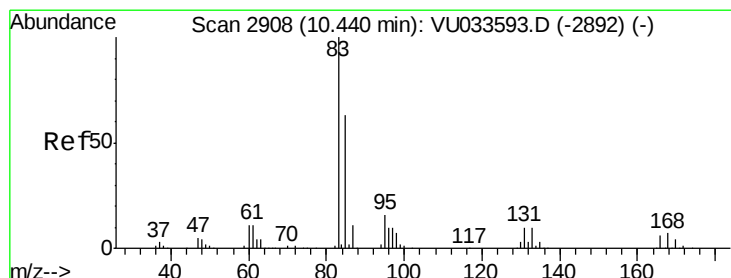
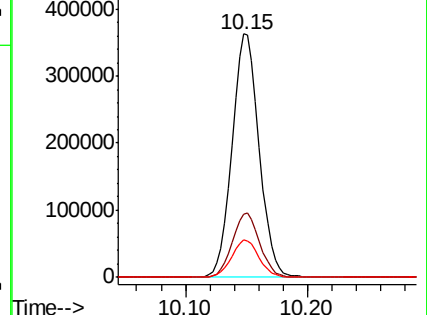
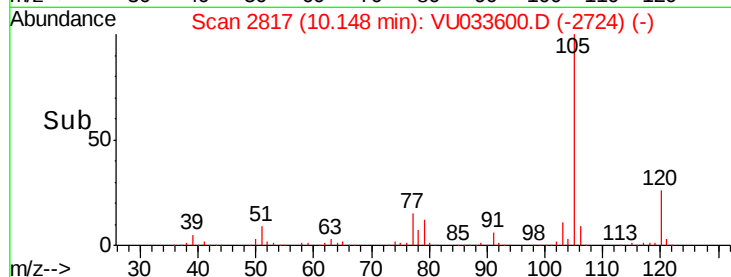
77 15.5 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.368 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

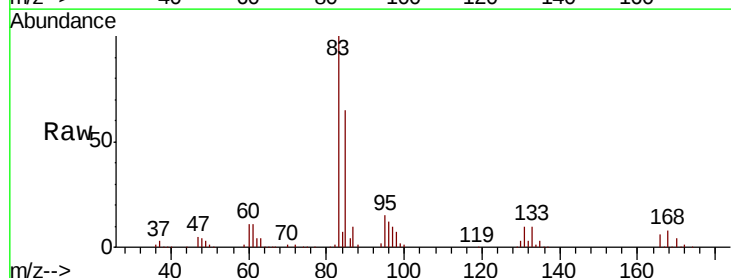
Tgt Ion: 83 Resp: 220503

Ion Ratio Lower Upper

83 100

85 64.8 44.3 82.3

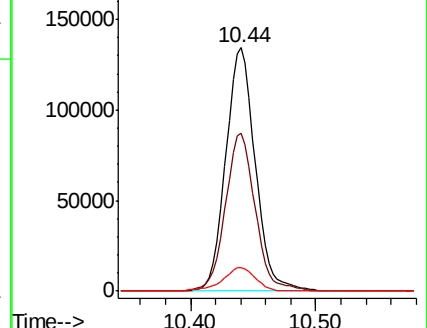
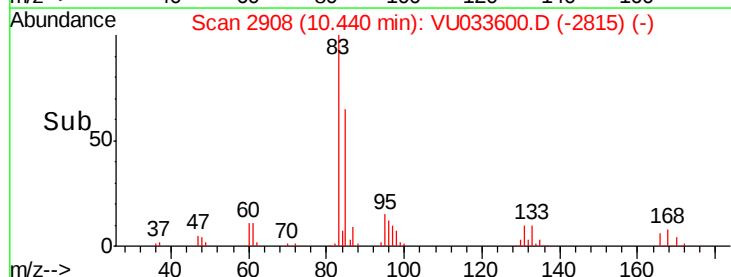
131 9.7 7.8 11.6

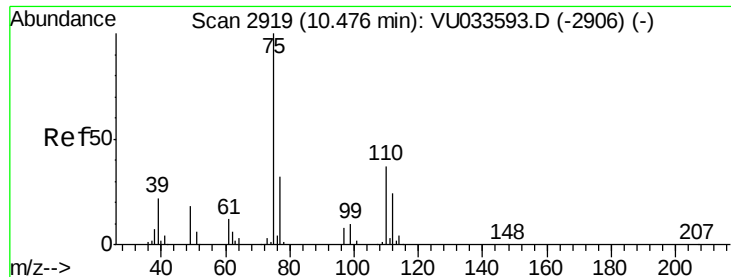


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.507 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

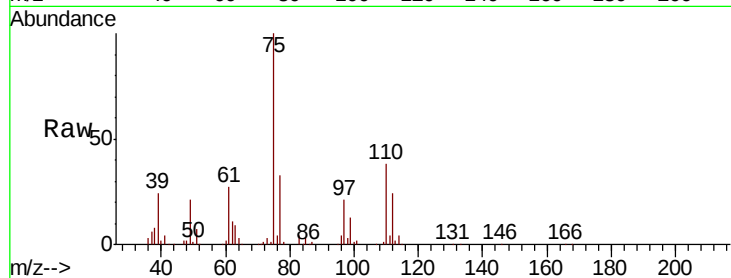
VSTD05048

Tgt Ion: 75 Resp: 169725

Ion Ratio Lower Upper

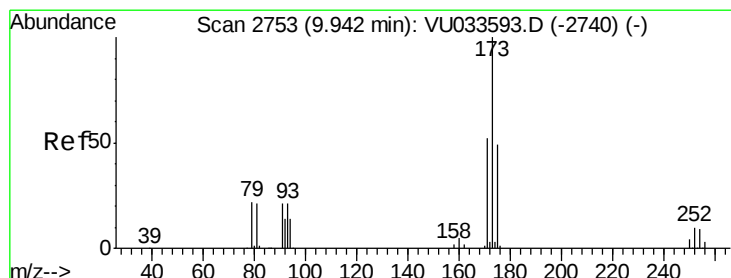
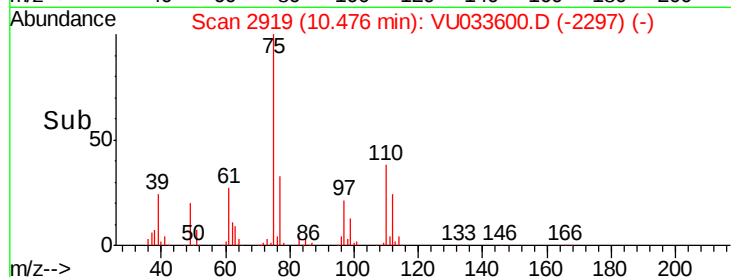
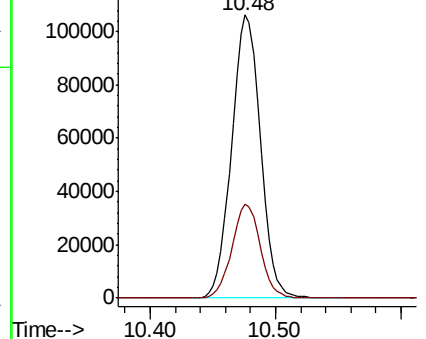
75 100

77 32.7 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU033593.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU033593.D (-2906) (-)



#61

Bromoform

Concen: 50.858 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

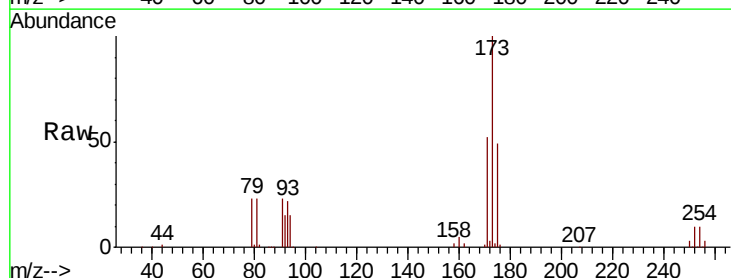
Tgt Ion: 173 Resp: 107358

Ion Ratio Lower Upper

173 100

175 49.0 39.4 59.0

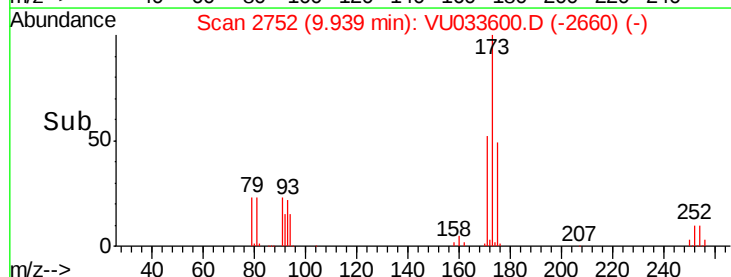
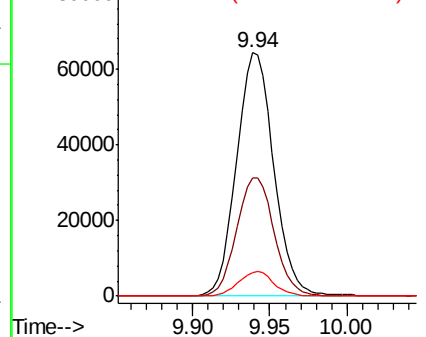
254 9.6 7.2 10.8

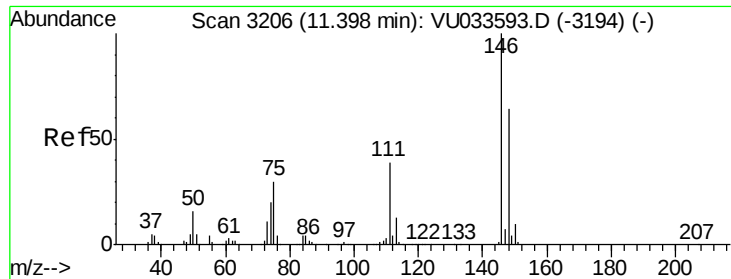


Abundance Ion 173.00 (172.70 to 173.70): VU033593.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033593.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033593.D (-2740) (-)





#62

1,3-Dichlorobenzene

Concen: 51.201 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

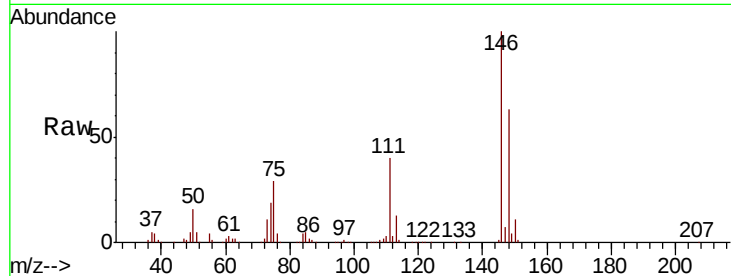
Tgt Ion:146 Resp: 272364

Ion Ratio Lower Upper

146 100

111 40.0 27.5 51.1

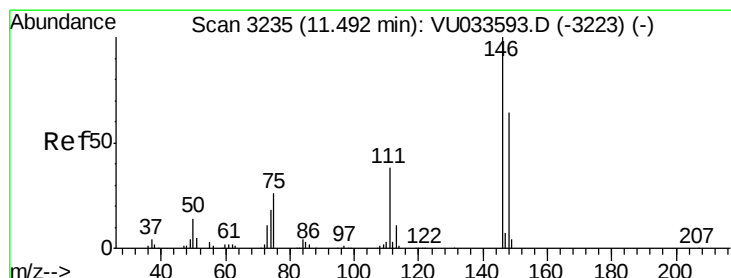
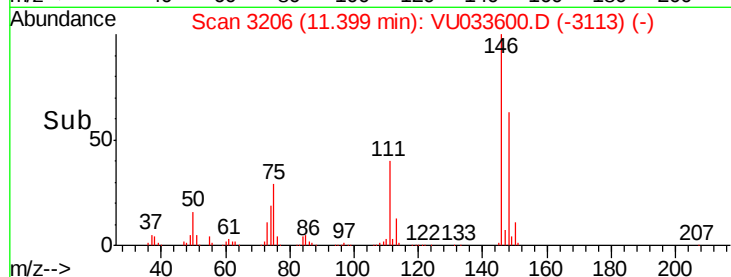
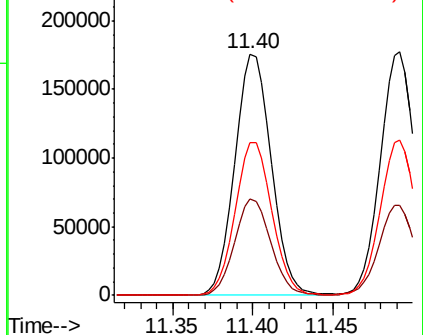
148 63.3 44.5 82.7



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



#63

1,4-Dichlorobenzene

Concen: 50.794 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033600.D

Acq: 05 Aug 2019 15:35

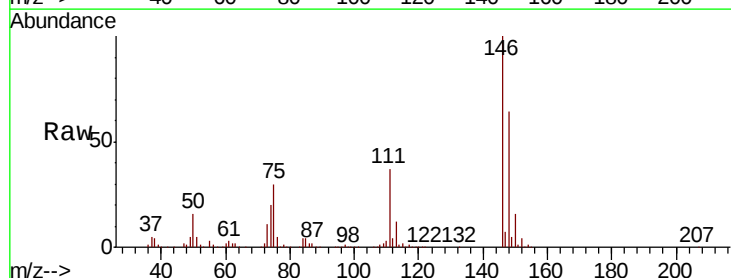
Tgt Ion:146 Resp: 276038

Ion Ratio Lower Upper

146 100

111 36.9 26.9 49.9

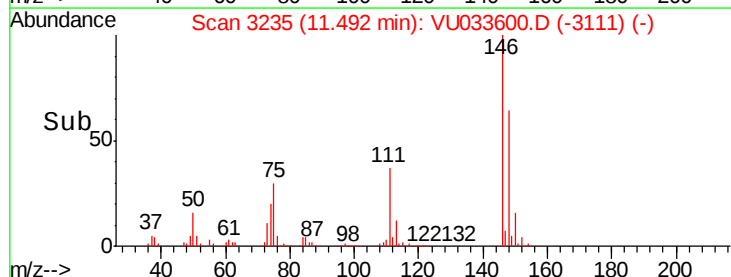
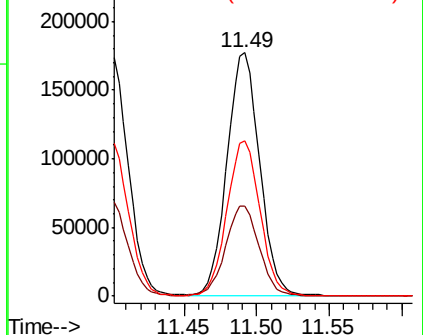
148 63.8 44.9 83.3

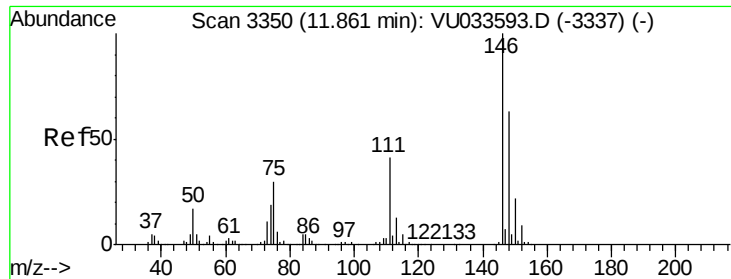


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

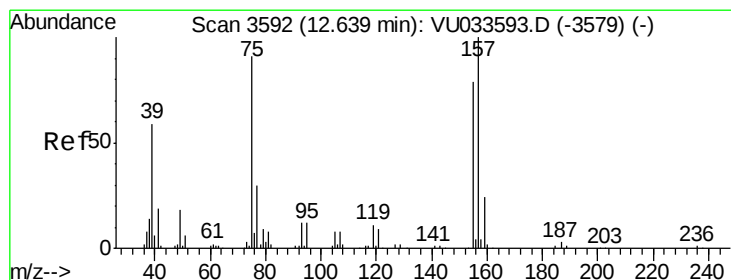
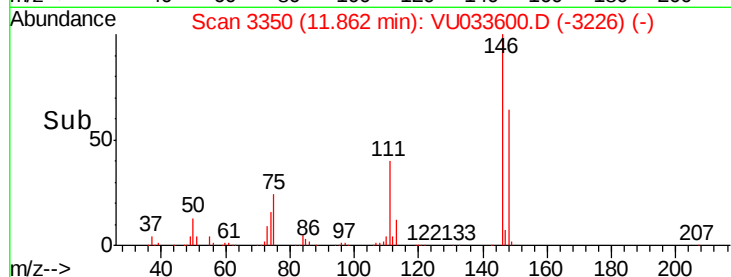
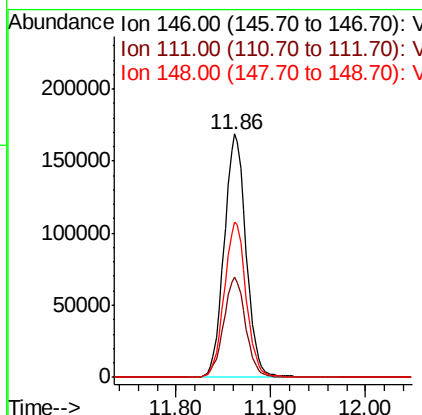
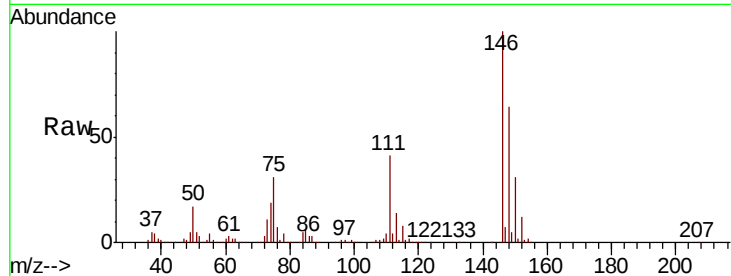




#65
 1,2-Dichlorobenzene
 Concen: 51.303 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

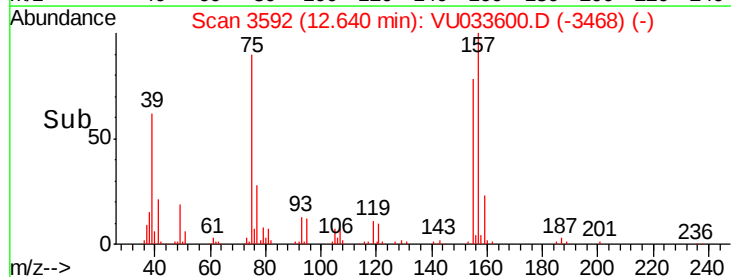
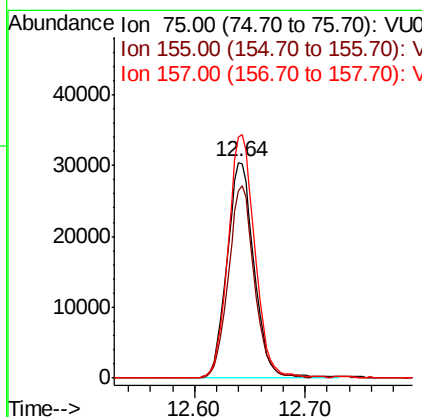
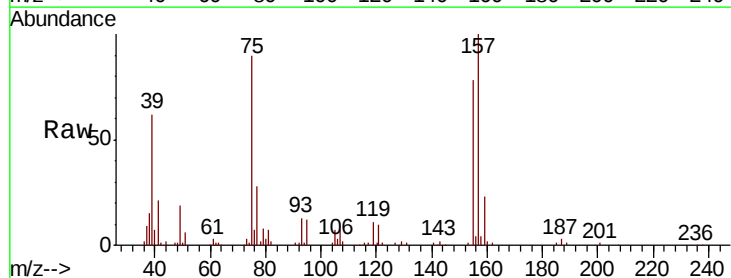
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

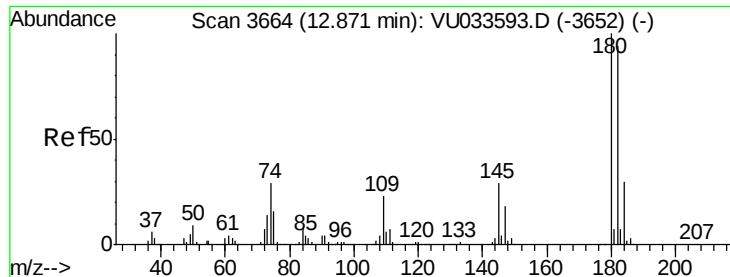
Tgt Ion: 146 Resp: 272187
 Ion Ratio Lower Upper
 146 100
 111 41.1 33.0 49.6
 148 63.8 50.6 75.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.859 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

Tgt Ion: 75 Resp: 51852
 Ion Ratio Lower Upper
 75 100
 155 87.0 69.0 103.6
 157 111.7 87.8 131.8

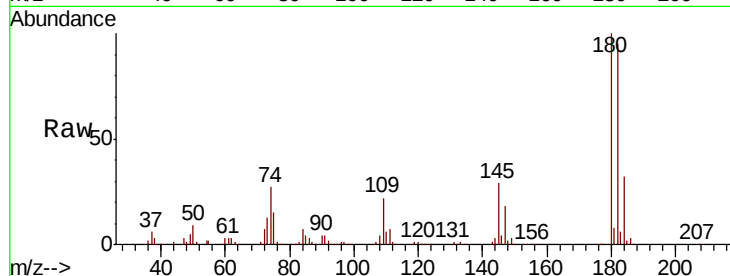




#67
 1,3,5-Trichlorobenzene
 Concen: 51.732 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.2
184	30.9	24.2	36.4
145	28.7	23.0	34.4



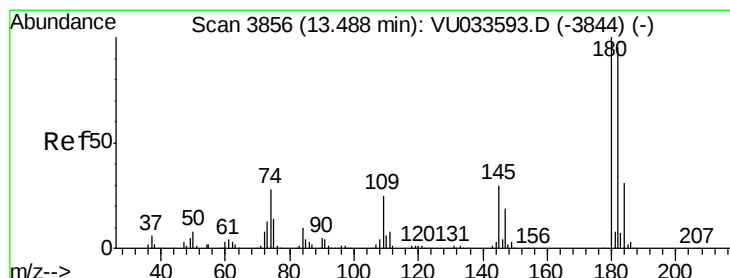
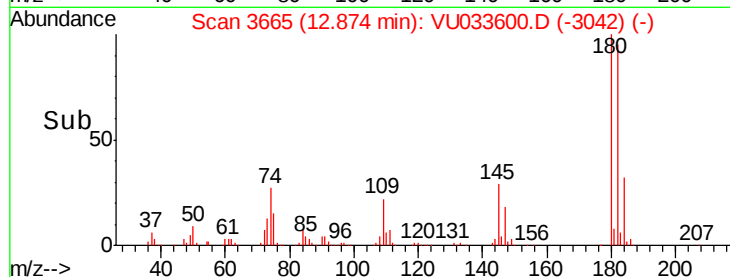
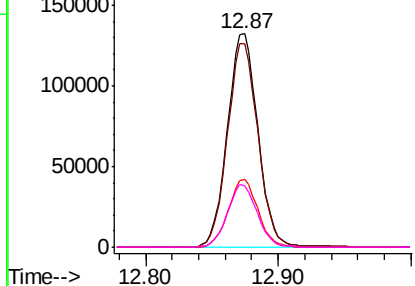
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

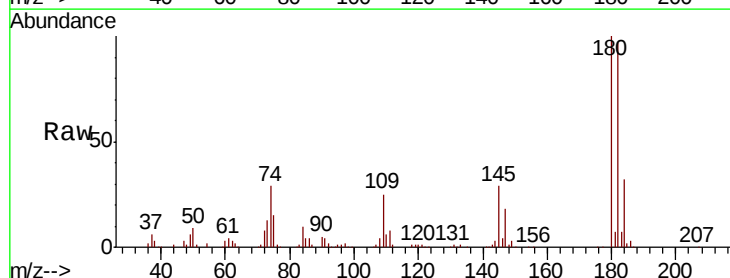
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 53.529 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033600.D
 Acq: 05 Aug 2019 15:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.7	115.1
145	28.7	23.5	35.3

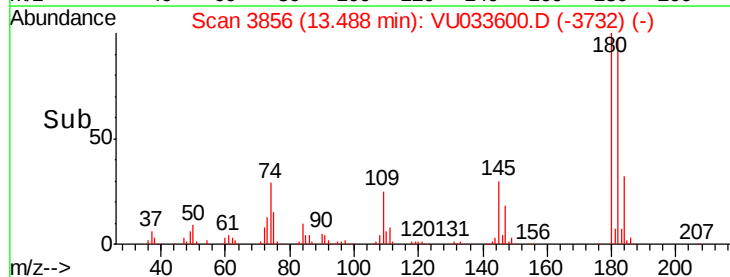
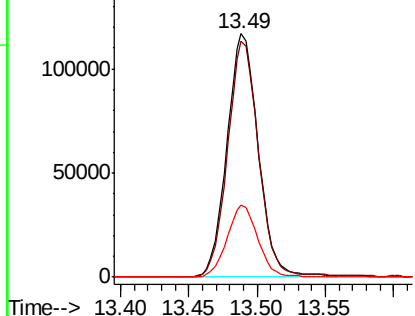


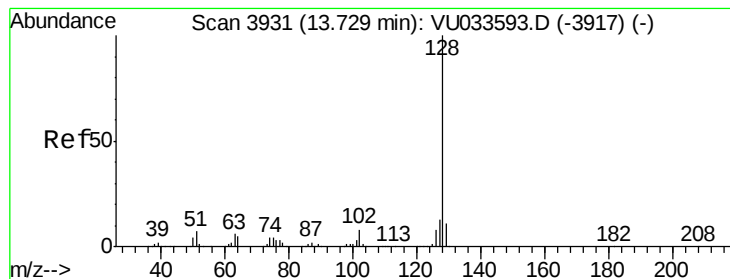
Abundance

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

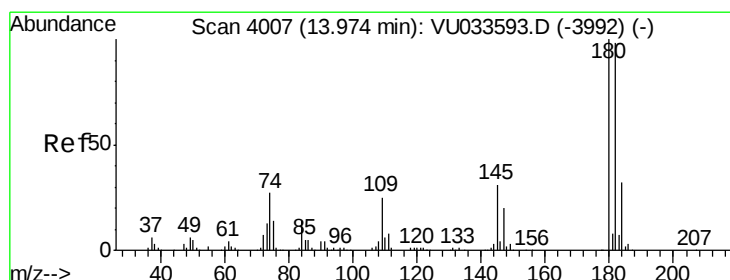
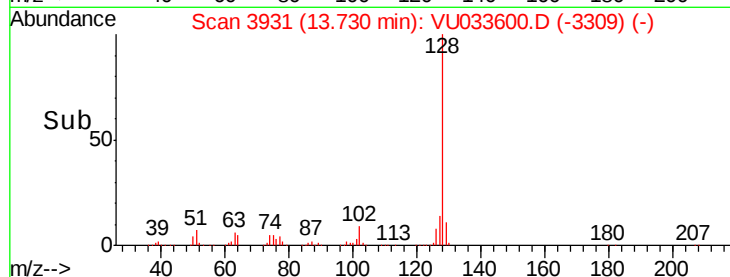
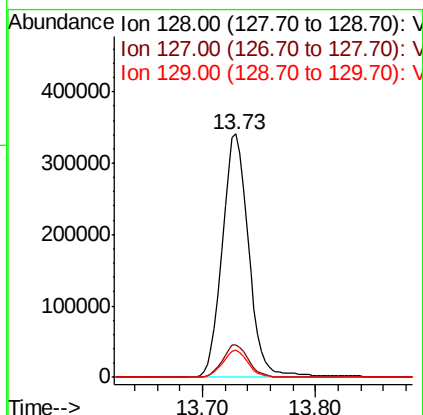
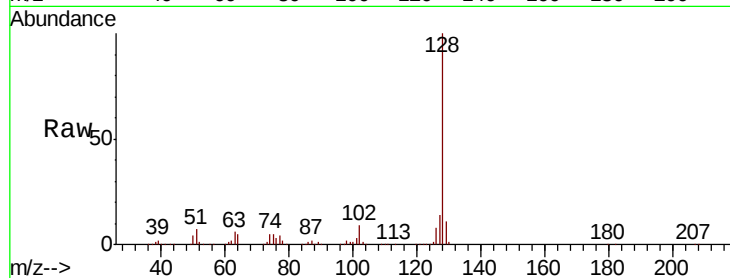




#69
Naphthalene
Concen: 54.789 ug/L
RT: 13.73 min Scan# 3931
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion:128 Resp: 556291
Ion Ratio Lower Upper
128 100
127 13.3 10.6 15.8
129 10.8 8.6 12.8



#70
1,2,3-Trichlorobenzene
Concen: 52.711 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. 0.00 min
Lab File: VU033600.D
Acq: 05 Aug 2019 15:35

Tgt Ion:180 Resp: 195897
Ion Ratio Lower Upper
180 100
182 95.6 77.4 116.2
145 31.0 24.5 36.7

