

Data File : VU029961.D
Acq On : 10 Mar 2019 20:18
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

Quant Time: Mar 11 07:16:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031119WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 11 07:10:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	544927	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	535307	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	283392	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	155796	46.86	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.72%
7) Chloroethane-d5	1.68	69	129792	46.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.88%
11) 1,1-Dichloroethene-d2	2.27	63	299898	47.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.70%
21) 2-Butanone-d5	4.17	46	267187	103.73	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.73%
24) Chloroform-d	4.64	84	316099	48.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.70%
26) 1,2-Dichloroethane-d4	5.31	65	184941	48.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.56%
32) Benzene-d6	5.34	84	658394	49.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.72%
36) 1,2-Dichloropropane-d6	6.33	67	200425	49.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.48%
41) Toluene-d8	7.56	98	638034	49.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.70%
43) trans-1,3-Dichloropropene-	7.85	79	92057	47.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.42%
47) 2-Hexanone-d5	8.31	63	207330	95.64	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.64%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	323349	50.83	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.66%
64) 1,2-Dichlorobenzene-d4	11.85	152	270520	48.67	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.34%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	208874	49.749	ug/L	100
3) Chloromethane	1.33	50	271205	49.305	ug/L	100
5) Vinyl chloride	1.40	62	218621	51.305	ug/L	99
6) Bromomethane	1.62	94	65781	58.228	ug/L	99
8) Chloroethane	1.69	64	126701	48.613	ug/L	100
9) Trichlorofluoromethane	1.88	101	284847	50.478	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	172951	49.799	ug/L	99
12) 1,1-Dichloroethene	2.28	96	170103	50.470	ug/L	95
13) Acetone	2.32	43	188088	66.940	ug/L	98
14) Carbon disulfide	2.47	76	522885	49.778	ug/L	100
15) Methyl Acetate	2.61	43	204304	52.666	ug/L	98
16) Methylene chloride	2.70	84	198090	50.129	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	183761	51.428	ug/L	100
18) Methyl tert-butyl Ether	3.00	73	512629	57.315	ug/L	100
19) 1,1-Dichloroethane	3.44	63	318005	51.613	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	209521	51.390	ug/L	97
22) 2-Butanone	4.26	43	290000	90.162	ug/L	99

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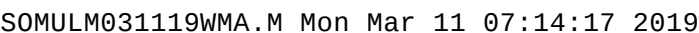
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

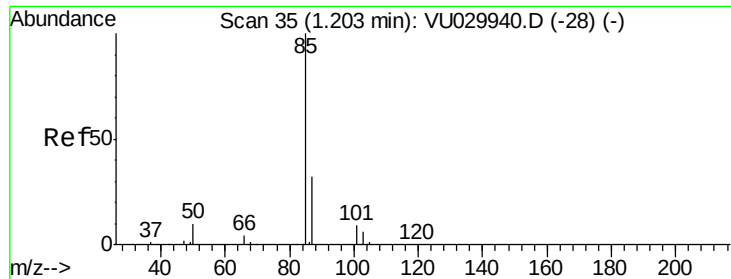
Quant Time: Mar 11 07:16:26 2019
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Quant Title : VOC Analysis
QLast Update : Mon Mar 11 07:10:15 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	108684	53.028	ug/L	98
25) Chloroform	4.67	83	333783	50.345	ug/L	100
27) 1,2-Dichloroethane	5.40	62	239462	50.784	ug/L	99
29) Cyclohexane	4.99	56	282731	51.581	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	278660	51.680	ug/L	100
31) Carbon tetrachloride	5.13	117	224012	47.050	ug/L	100
33) Benzene	5.39	78	749401	52.406	ug/L	100
34) Trichloroethene	6.18	95	194130	50.373	ug/L	99
35) Methylcyclohexane	6.41	83	308088	50.098	ug/L	99
37) 1,2-Dichloropropane	6.43	63	191936	51.506	ug/L	100
38) Bromodichloromethane	6.75	83	233629	50.079	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	285211	50.290	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	531135	106.890	ug/L	100
42) Toluene	7.63	91	824071	52.718	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	254772	50.424	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	193849	51.244	ug/L	99
46) Tetrachloroethene	8.22	164	169610	51.101	ug/L	98
48) 2-Hexanone	8.36	43	429856	102.331	ug/L	99
49) Dibromochloromethane	8.47	129	206158	49.792	ug/L	98
50) 1,2-Dibromoethane	8.58	107	209170	51.305	ug/L	98
51) Chlorobenzene	9.12	112	546605	51.668	ug/L	100
52) Ethylbenzene	9.25	91	898925	51.992	ug/L	100
53) m,p-Xylene	9.37	106	343755	51.934	ug/L	100
54) o-xylene	9.77	106	344769	52.318	ug/L	99
55) Styrene	9.79	104	543295	50.818	ug/L	100
56) Isopropylbenzene	10.16	105	889213	52.104	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	340291	51.949	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	255477	51.719	ug/L	100
61) Bromoform	9.95	173	156903	47.551	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	437525	50.500	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	437239	49.285	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	444573	50.306	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	68643	49.561	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	329887	50.169	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	290410	49.506	ug/L	99
69) Naphthalene	13.74	128	898210	49.546	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	300991	48.866	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 49.749 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

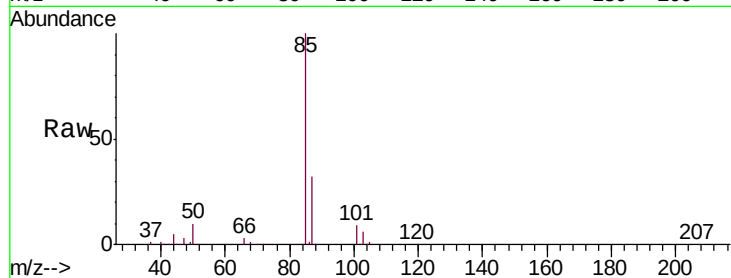
VSTD05057

Tgt Ion: 85 Resp: 208874

Ion Ratio Lower Upper

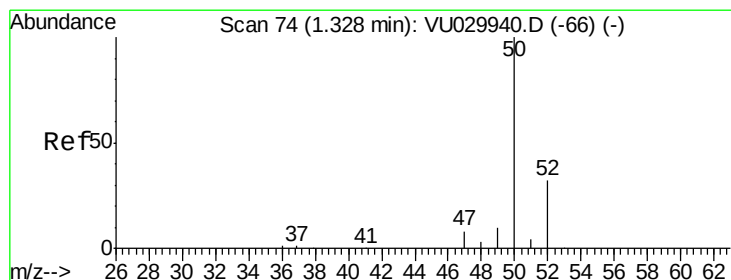
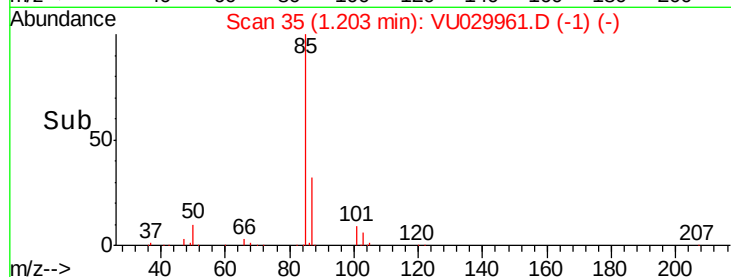
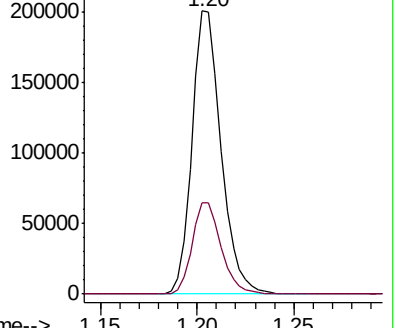
85 100

87 32.4 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU029940.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU029940.D (-28) (-)



#3

Chloromethane

Concen: 49.305 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029961.D

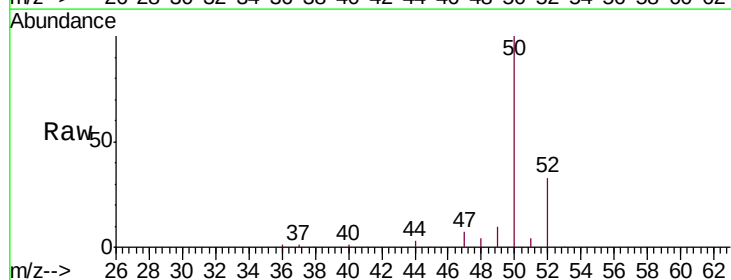
Acq: 10 Mar 2019 20:18

Tgt Ion: 50 Resp: 271205

Ion Ratio Lower Upper

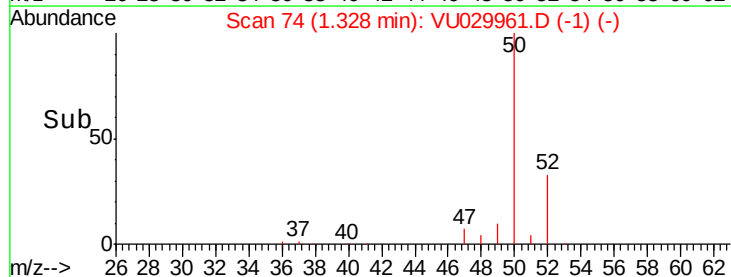
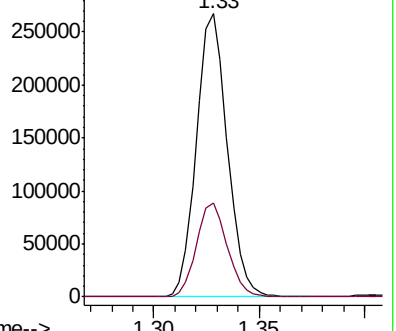
50 100

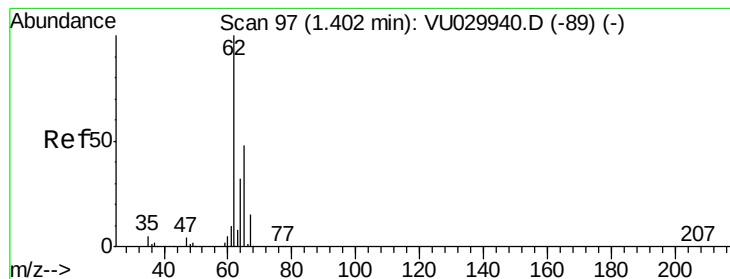
52 33.1 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU029940.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU029940.D (-66) (-)





#5

Vinyl chloride

Concen: 51.305 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

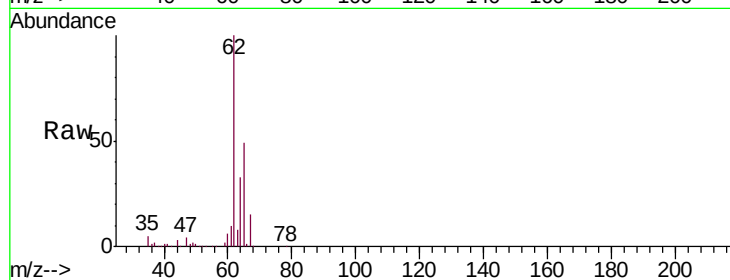
VSTD05057

Tgt Ion: 62 Resp: 218621

Ion Ratio Lower Upper

62 100

64 32.6 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

250000

200000

150000

100000

50000

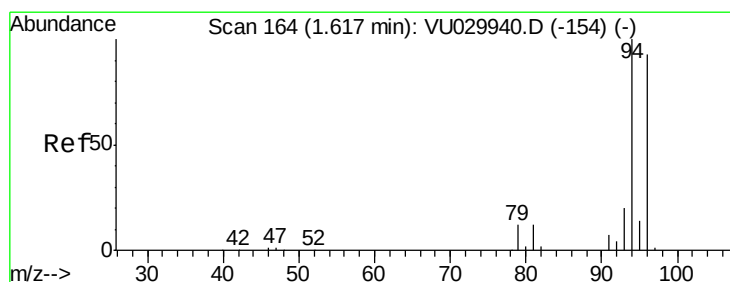
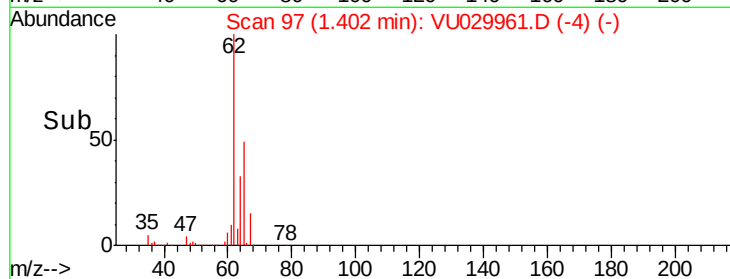
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 58.228 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU029961.D

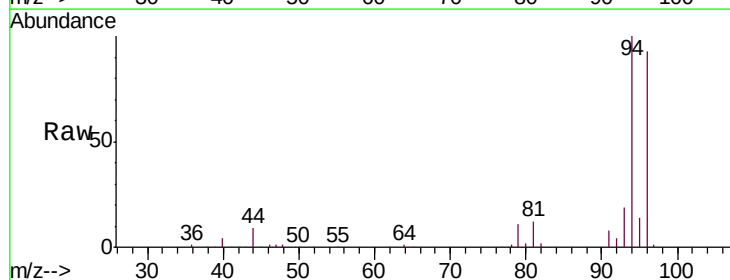
Acq: 10 Mar 2019 20:18

Tgt Ion: 94 Resp: 65781

Ion Ratio Lower Upper

94 100

96 93.1 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

60000

50000

40000

30000

20000

10000

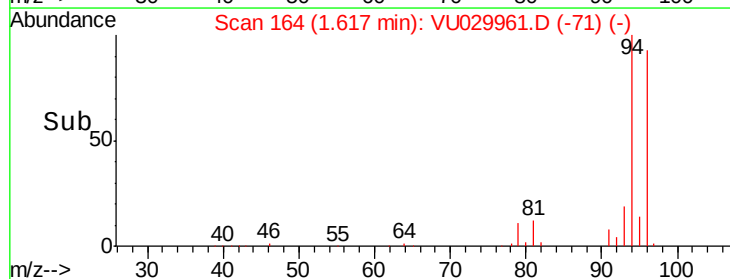
0

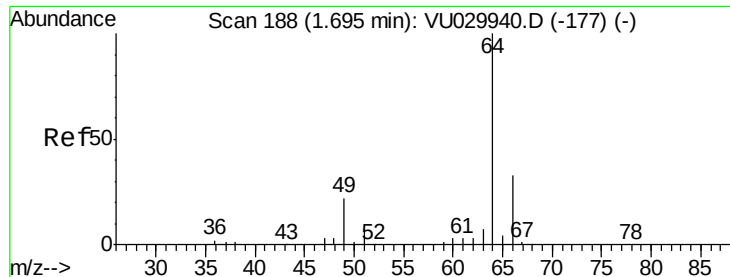
1.55

1.60

1.65

Time-->





#8

Chloroethane

Concen: 48.613 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

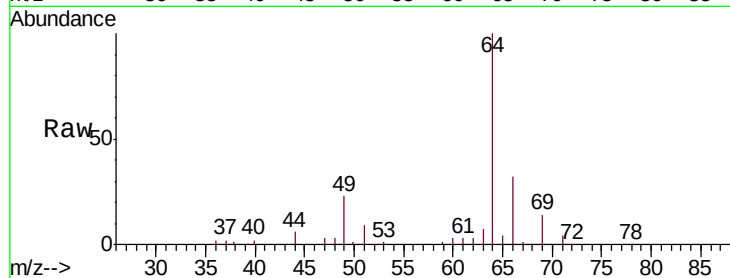
VSTD05057

Tgt Ion: 64 Resp: 126701

Ion Ratio Lower Upper

64 100

66 32.2 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU029961.D (-64) (-)

Ion 66.00 (65.70 to 66.70): VU029961.D (-66) (-)

1.69

100000

80000

60000

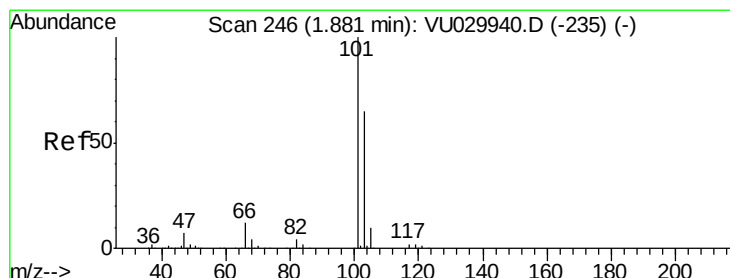
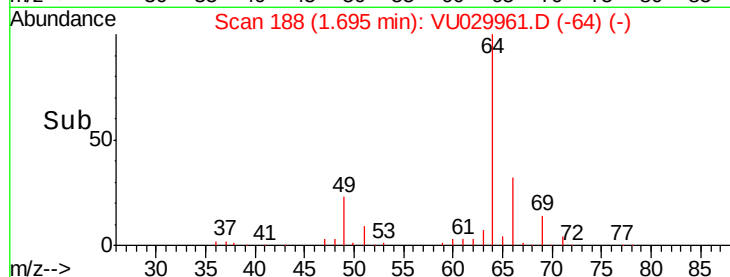
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 50.478 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU029961.D

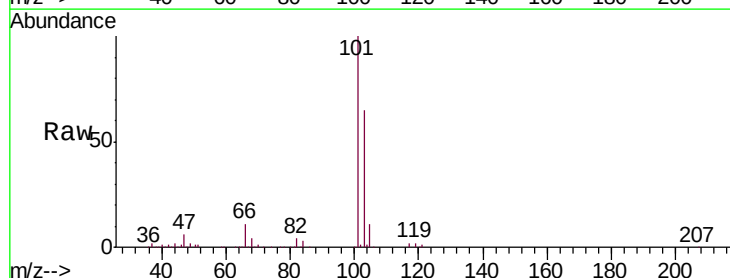
Acq: 10 Mar 2019 20:18

Tgt Ion: 101 Resp: 284847

Ion Ratio Lower Upper

101 100

103 64.3 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU029961.D (-101) (-)

Ion 103.00 (102.70 to 103.70): VU029961.D (-103) (-)

1.88

200000

150000

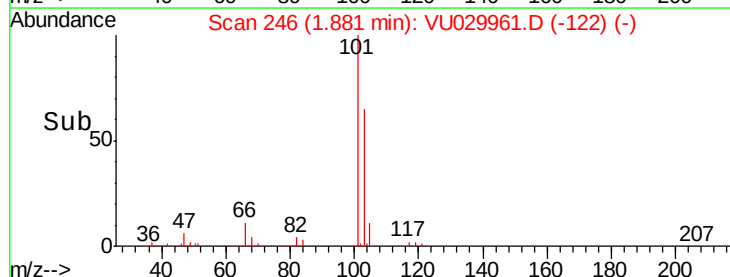
100000

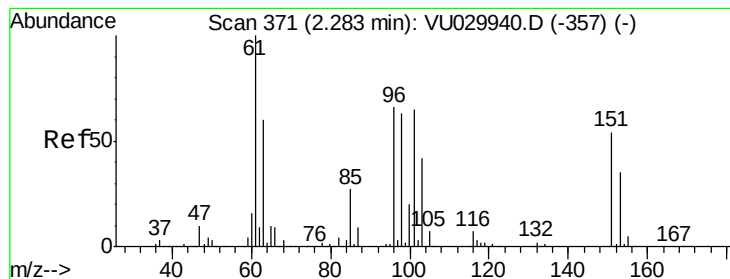
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 49.799 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

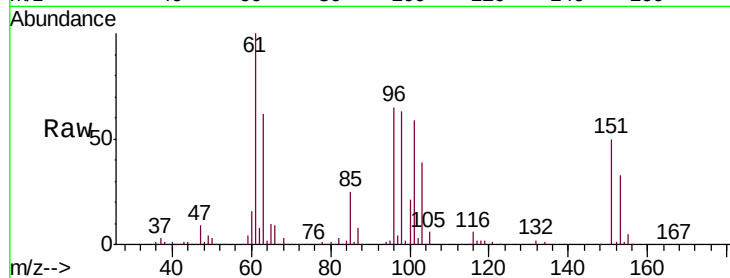
Tgt Ion: 101 Resp: 172951

Ion Ratio Lower Upper

101 100

85 41.0 33.4 50.2

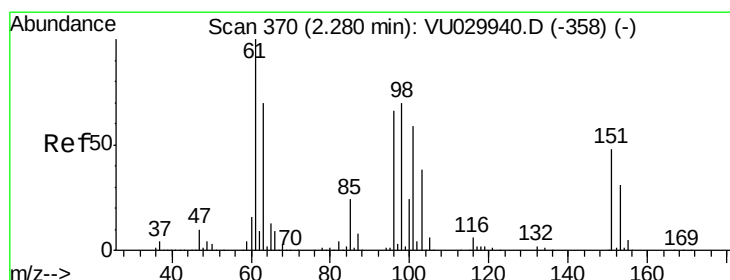
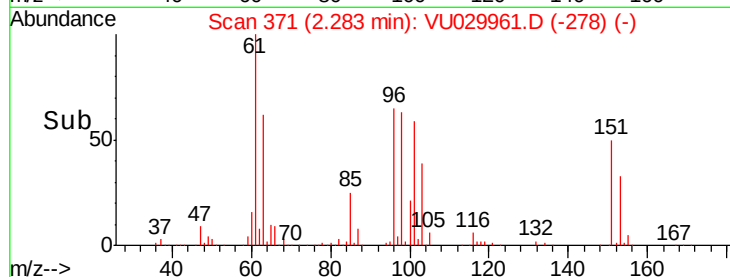
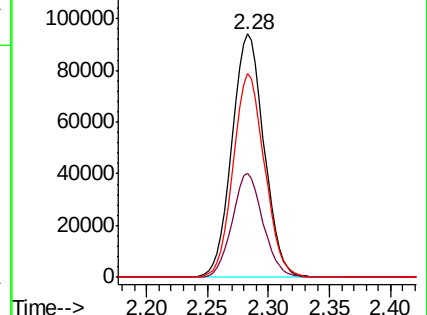
151 81.7 65.8 98.6



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: 50.470 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

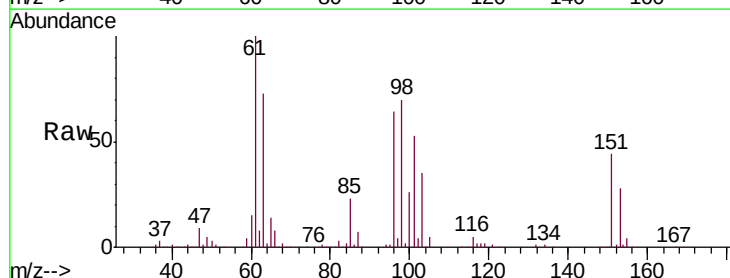
Tgt Ion: 96 Resp: 170103

Ion Ratio Lower Upper

96 100

61 156.8 109.0 202.4

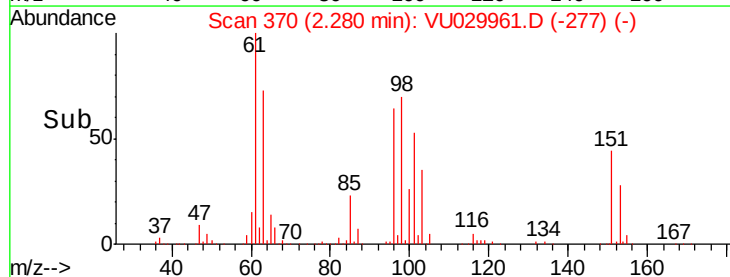
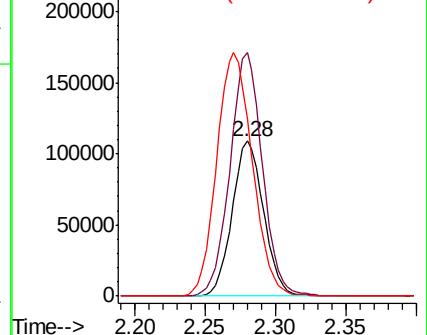
63 114.3 88.1 163.5

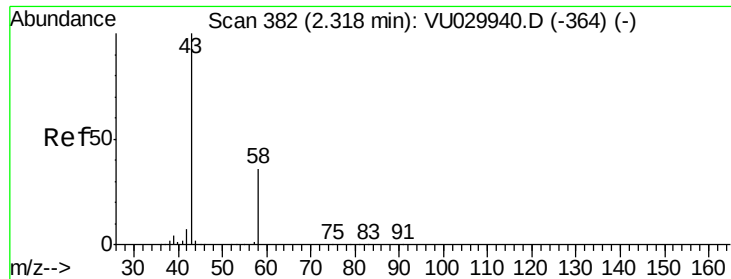


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 66.940 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

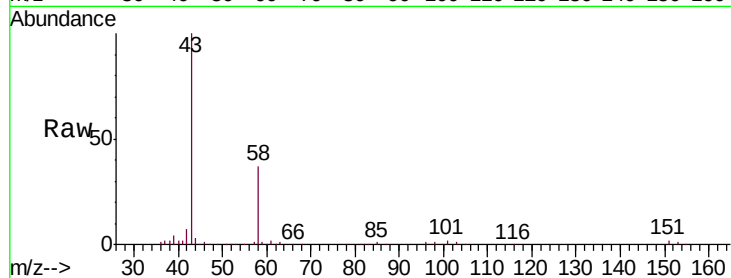
VSTD05057

Tgt Ion: 43 Resp: 188088

Ion Ratio Lower Upper

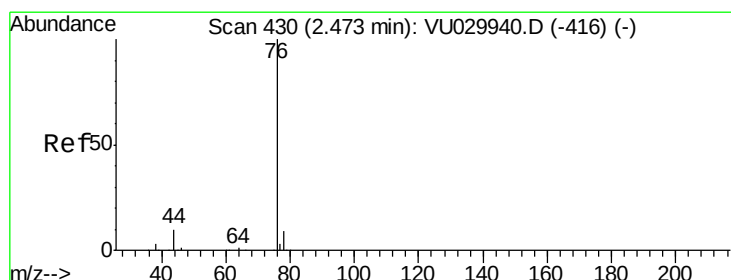
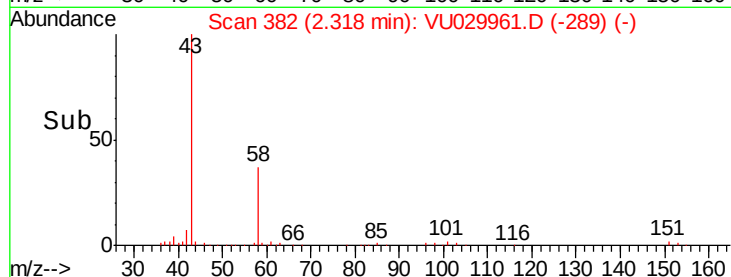
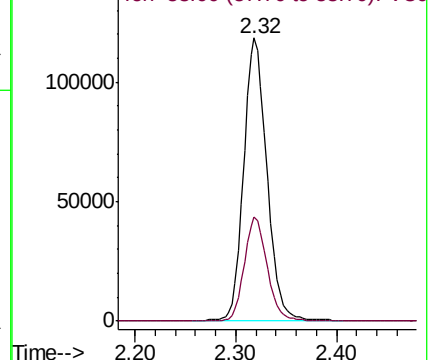
43 100

58 36.4 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU029940.D (-364) (-)

Ion 58.00 (57.70 to 58.70): VU029940.D (-364) (-)



#14

Carbon disulfide

Concen: 49.778 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029961.D

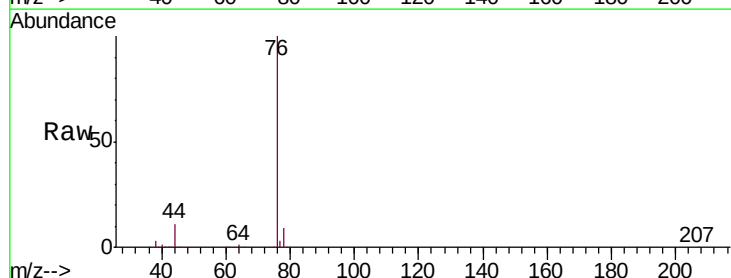
Acq: 10 Mar 2019 20:18

Tgt Ion: 76 Resp: 522885

Ion Ratio Lower Upper

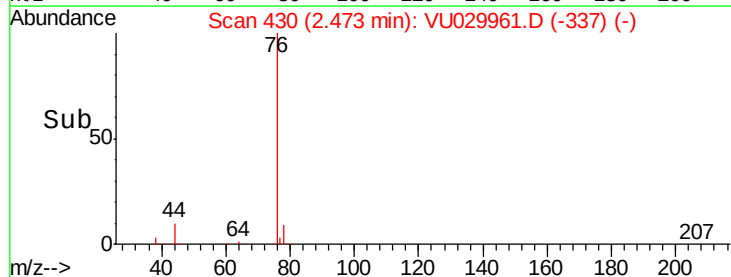
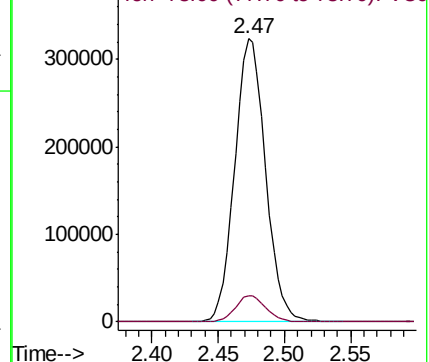
76 100

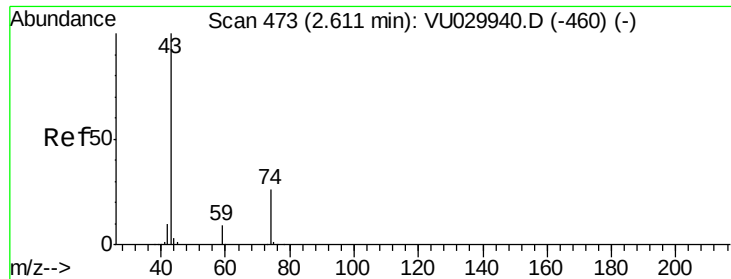
78 9.2 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VU029940.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU029940.D (-416) (-)





#15

Methyl Acetate

Concen: 52.666 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampled :

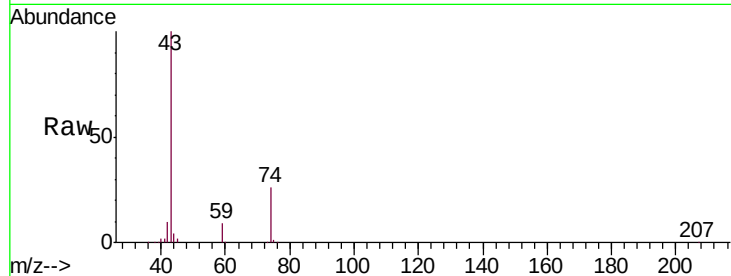
VSTD05057

Tgt Ion: 43 Resp: 204304

Ion Ratio Lower Upper

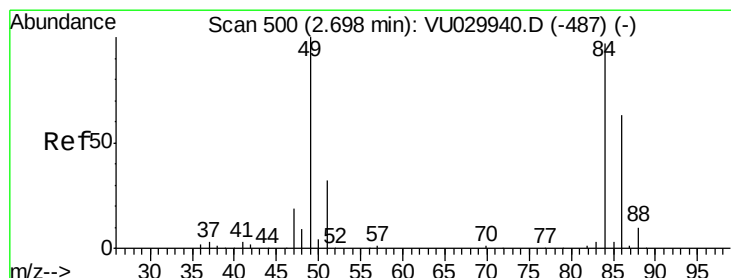
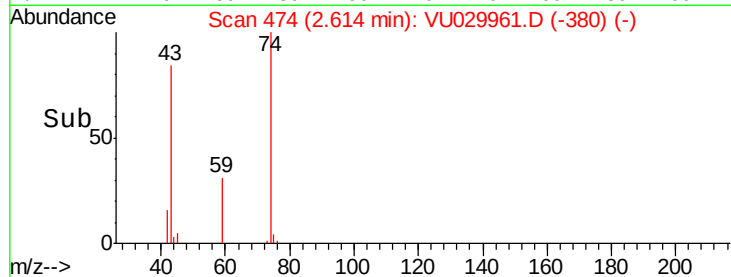
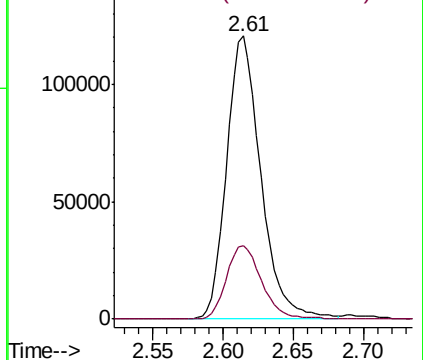
43 100

74 26.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 50.129 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

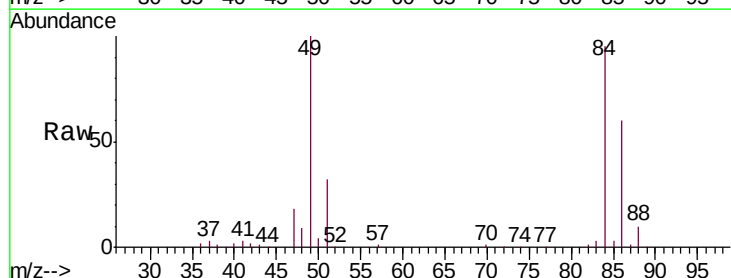
Tgt Ion: 84 Resp: 198090

Ion Ratio Lower Upper

84 100

86 63.6 45.3 84.1

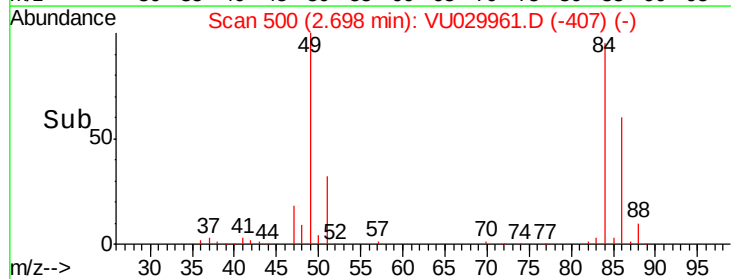
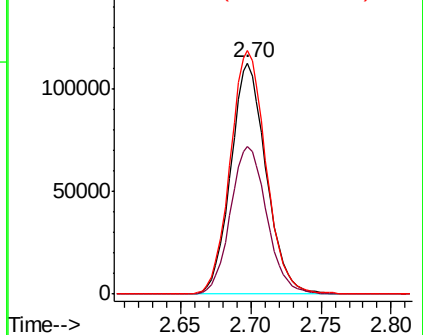
49 105.3 74.8 139.0

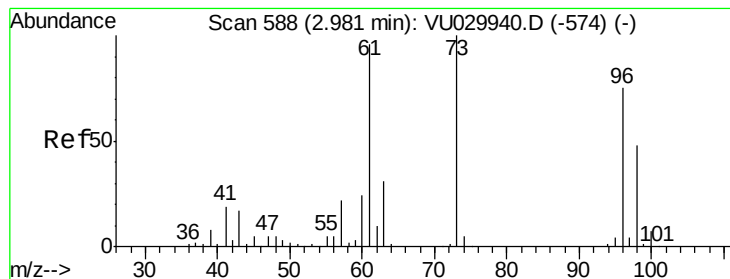


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 51.428 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

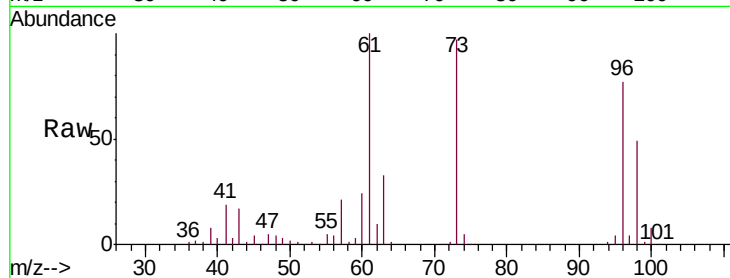
Tgt Ion: 96 Resp: 183761

Ion Ratio Lower Upper

96 100

61 130.7 91.1 169.3

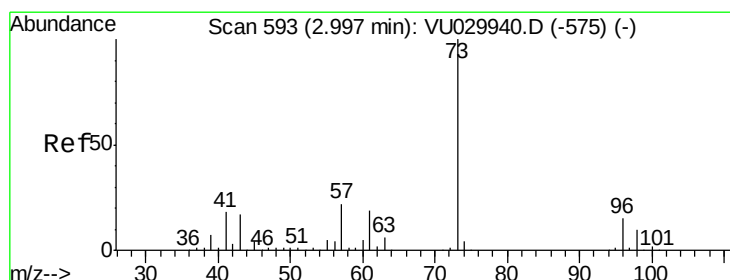
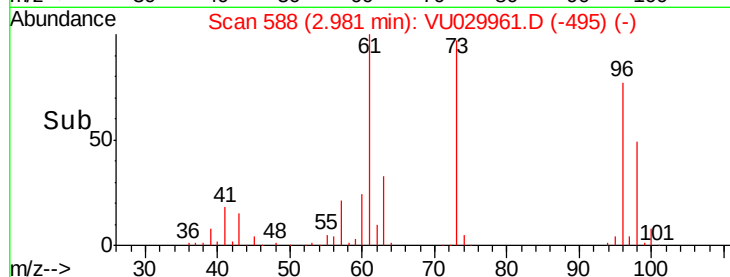
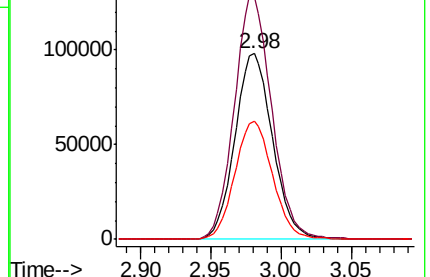
98 63.8 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VU029940.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU029940.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU029940.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 57.315 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

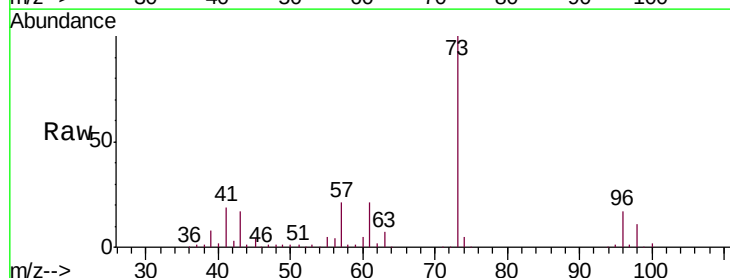
Tgt Ion: 73 Resp: 512629

Ion Ratio Lower Upper

73 100

43 16.7 13.5 20.3

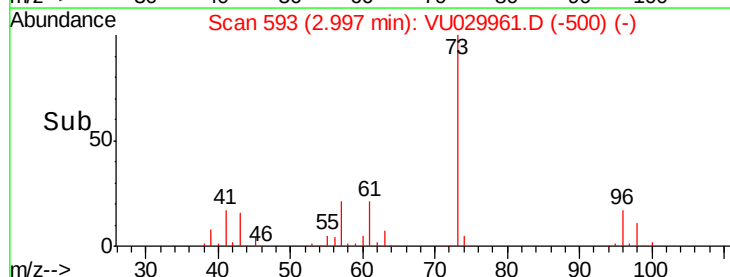
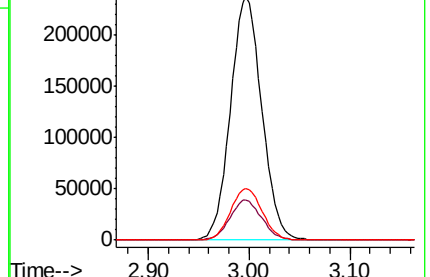
57 21.5 17.4 26.0

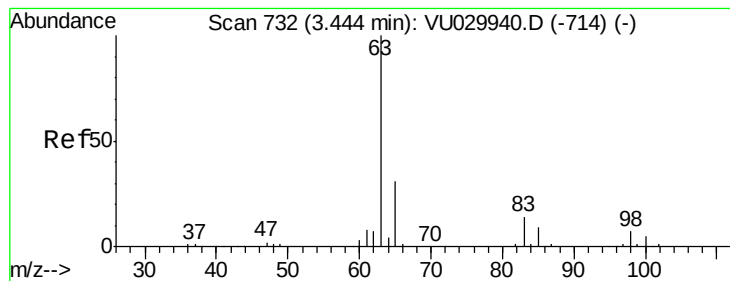


Abundance Ion 73.00 (72.70 to 73.70): VU029940.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU029940.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU029940.D (-575) (-)





#19

1,1-Dichloroethane

Concen: 51.613 ug/L

RT: 3.44 min Scan# 732

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

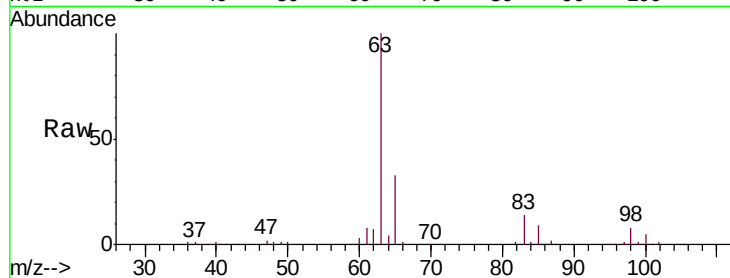
Tgt Ion: 63 Resp: 318005

Ion Ratio Lower Upper

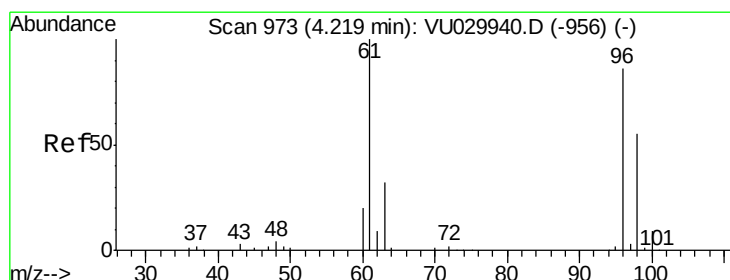
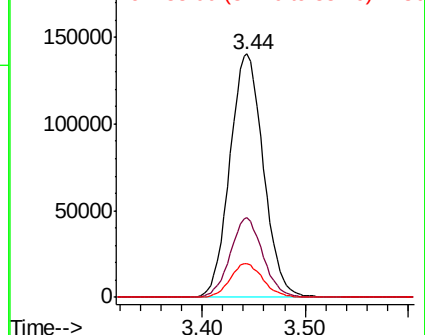
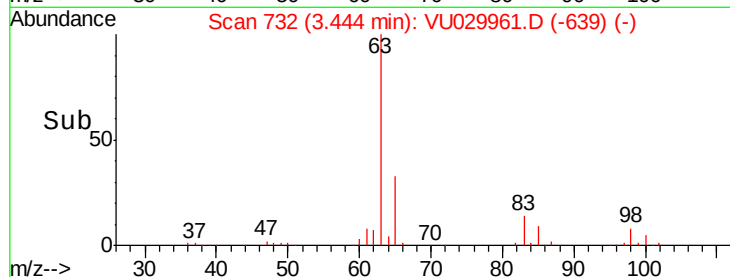
63 100

65 32.6 22.4 41.6

83 13.9 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VU029961.D (-639) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.390 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

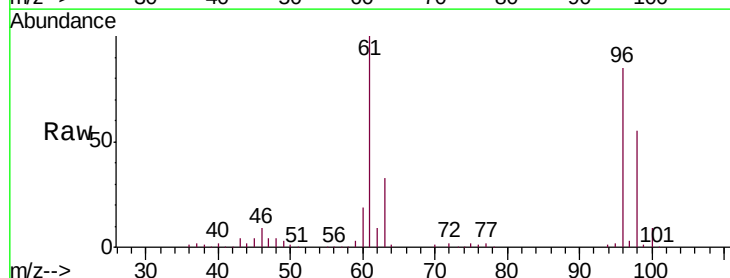
Tgt Ion: 96 Resp: 209521

Ion Ratio Lower Upper

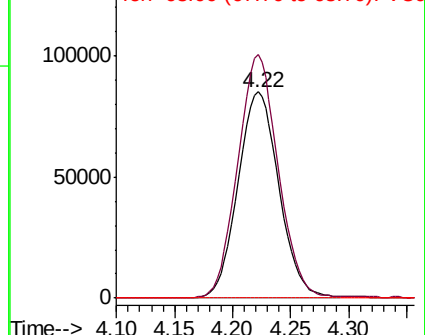
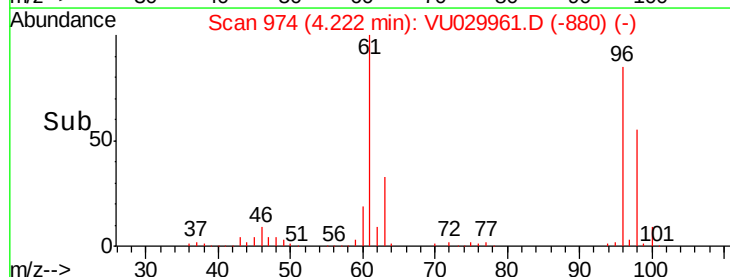
96 100

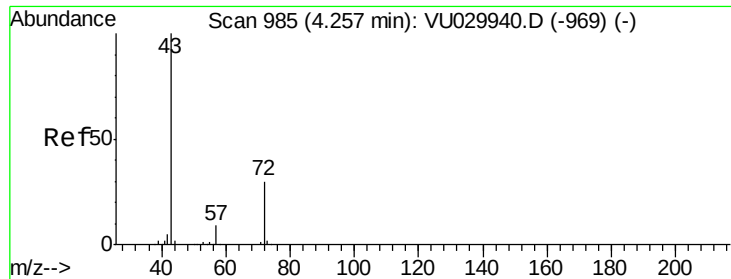
61 118.0 80.6 149.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU029961.D (-880) (-)





#22

2-Butanone

Concen: 90.162 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

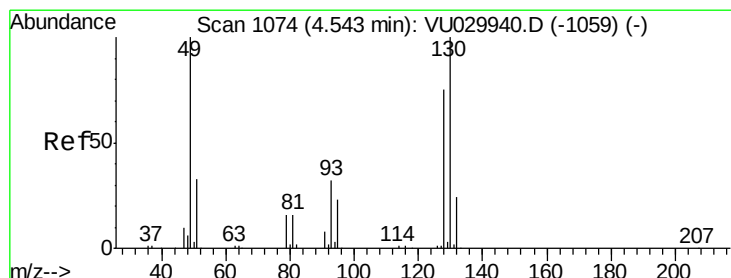
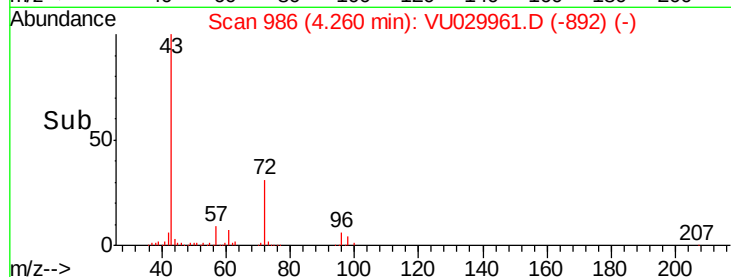
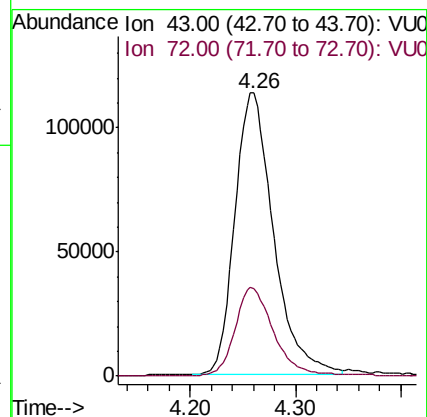
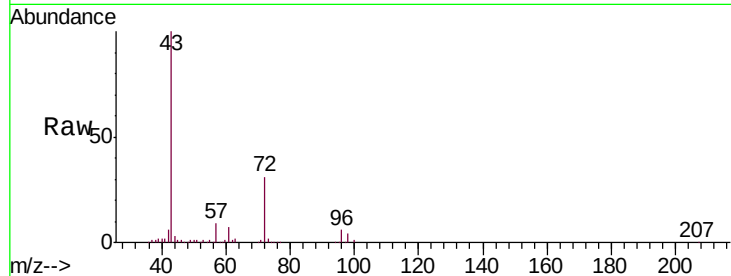
VSTD05057

Tgt Ion: 43 Resp: 290000

Ion Ratio Lower Upper

43 100

72 31.5 15.4 46.4



#23

Bromochloromethane

Concen: 53.028 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Tgt Ion: 128 Resp: 108684

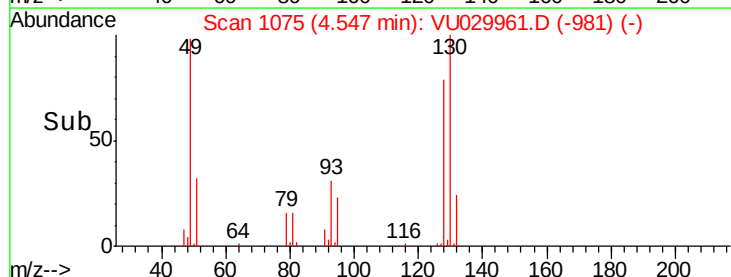
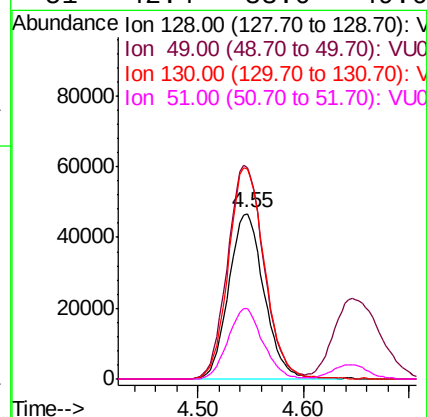
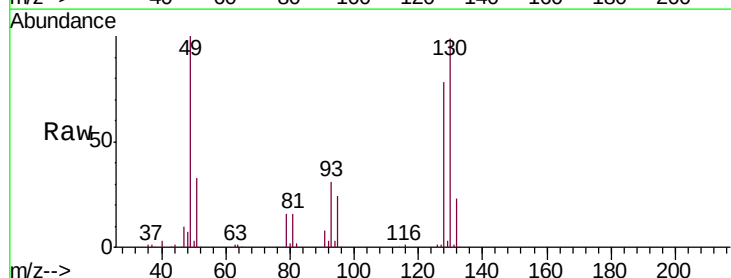
Ion Ratio Lower Upper

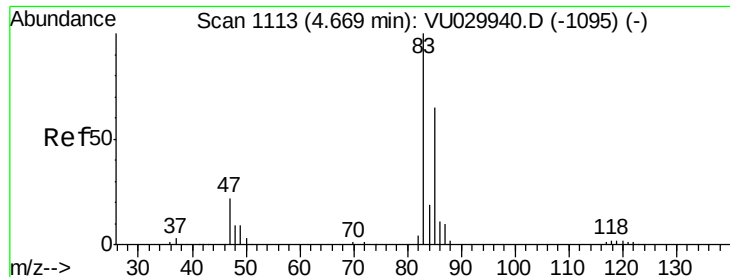
128 100

49 127.9 92.2 171.2

130 127.1 90.4 168.0

51 42.4 33.0 49.6

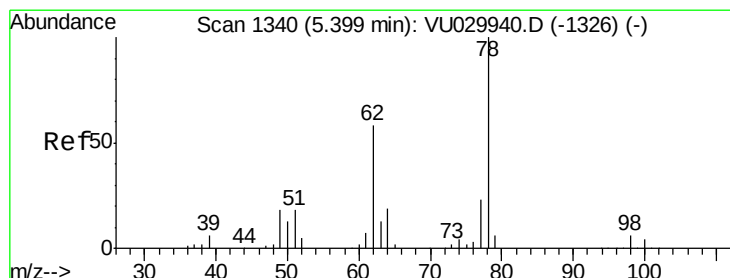
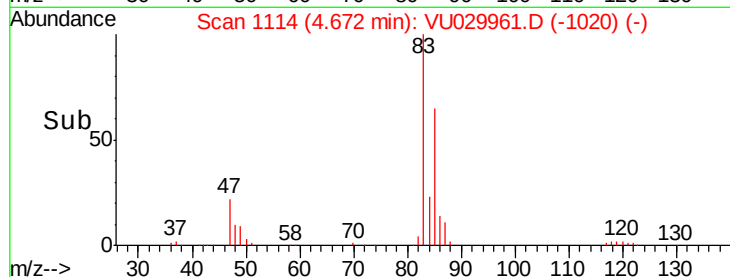
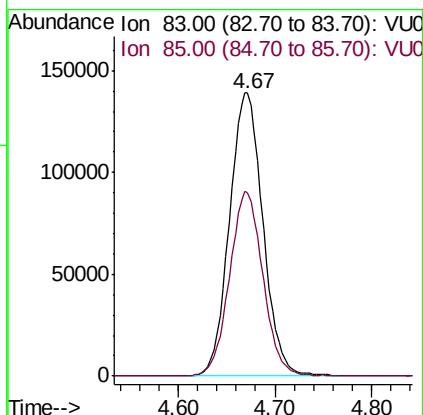
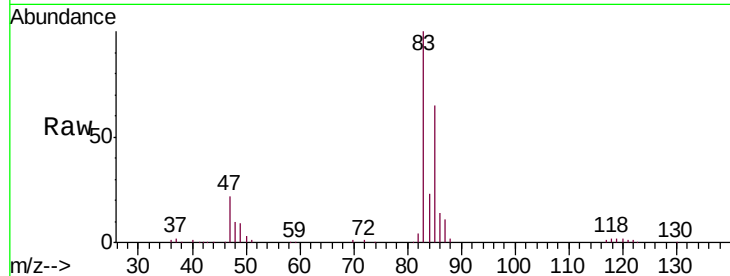




#25
Chloroform
Concen: 50.345 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029961.D
Acq: 10 Mar 2019 20:18

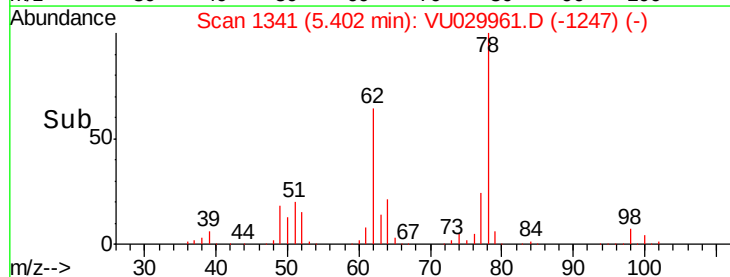
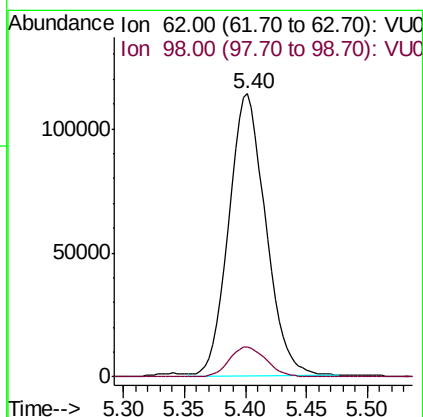
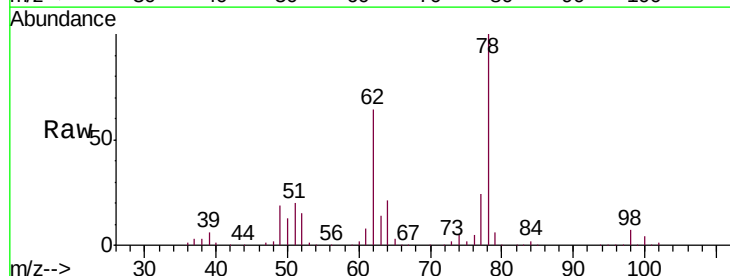
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

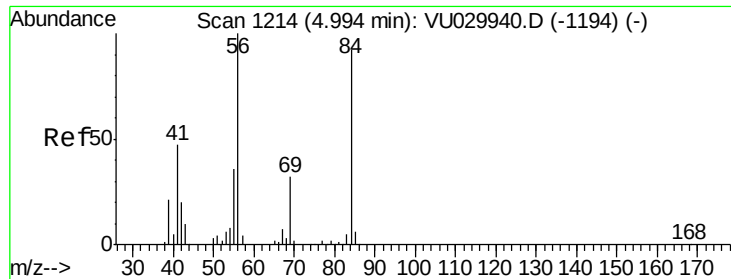
Tgt Ion: 83 Resp: 333783
Ion Ratio Lower Upper
83 100
85 64.7 45.3 84.1



#27
1,2-Dichloroethane
Concen: 50.784 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU029961.D
Acq: 10 Mar 2019 20:18

Tgt Ion: 62 Resp: 239462
Ion Ratio Lower Upper
62 100
98 10.4 8.6 12.8

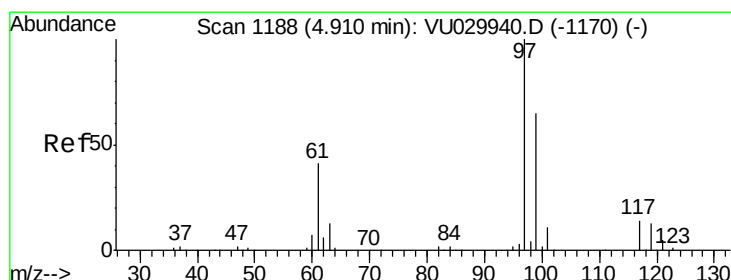
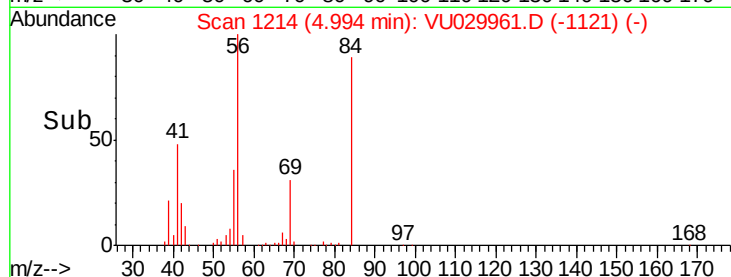
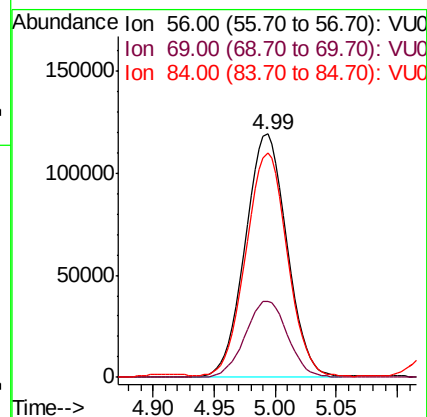
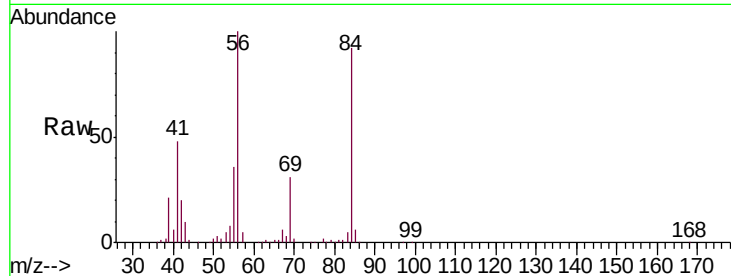




#29
Cyclohexane
Concen: 51.581 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. -0.00 min
Lab File: VU029961.D
Acq: 10 Mar 2019 20:18

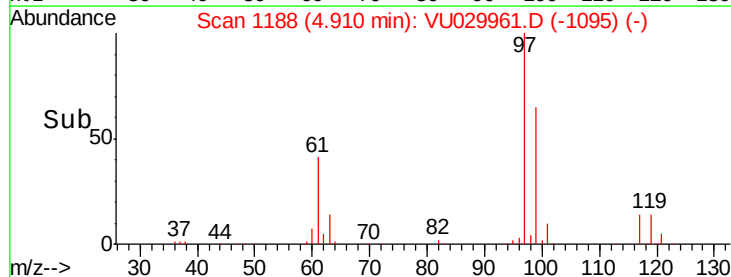
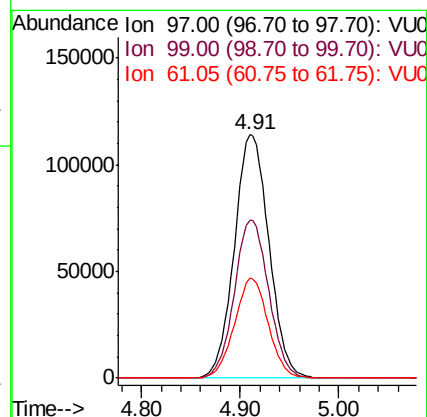
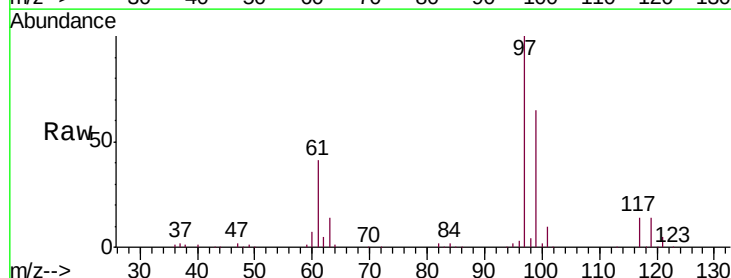
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

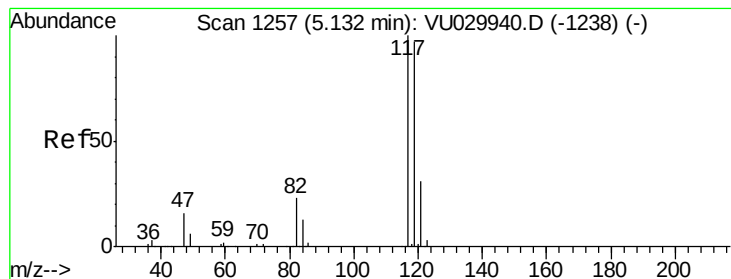
Tgt Ion: 56 Resp: 282731
Ion Ratio Lower Upper
56 100
69 31.8 25.4 38.0
84 92.1 73.0 109.6



#30
1,1,1-Trichloroethane
Concen: 51.680 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU029961.D
Acq: 10 Mar 2019 20:18

Tgt Ion: 97 Resp: 278660
Ion Ratio Lower Upper
97 100
99 64.4 51.4 77.0
61 40.1 32.2 48.2





#31

Carbon tetrachloride

Concen: 47.050 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

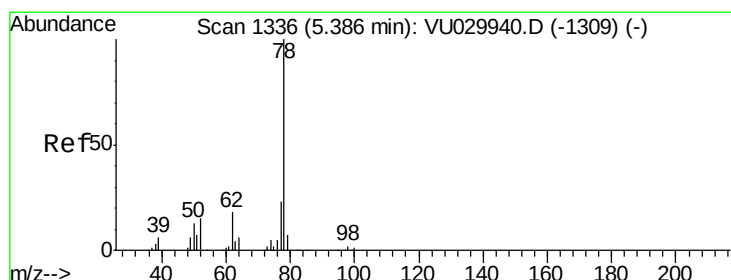
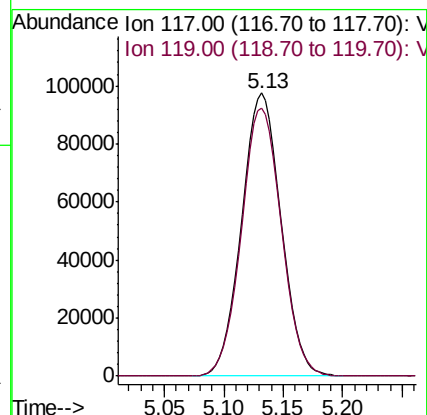
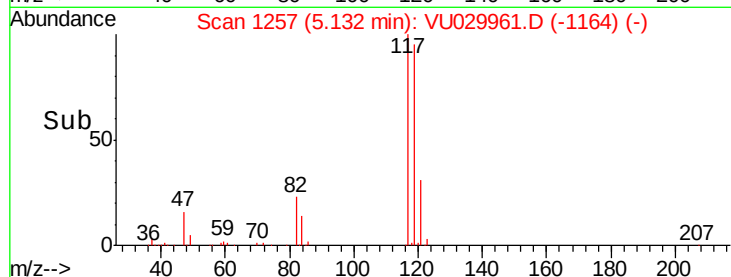
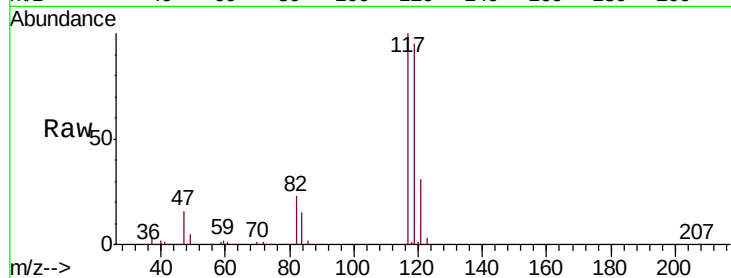
VSTD05057

Tgt Ion:117 Resp: 224012

Ion Ratio Lower Upper

117 100

119 96.1 76.9 115.3



#33

Benzene

Concen: 52.406 ug/L

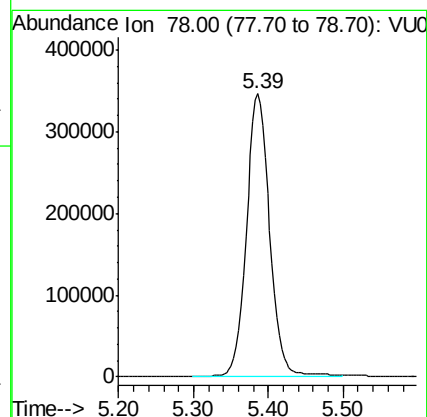
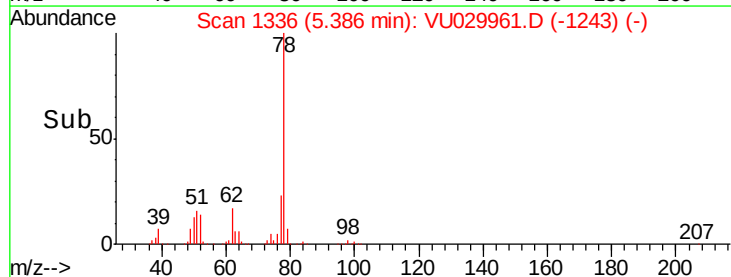
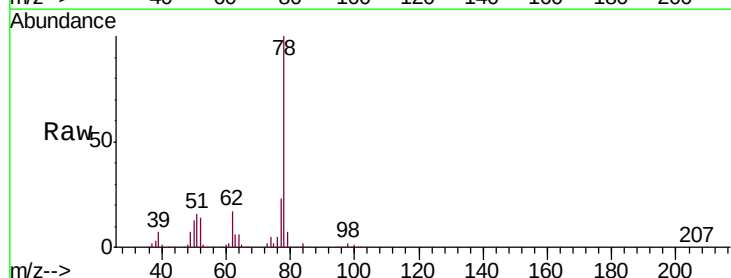
RT: 5.39 min Scan# 1336

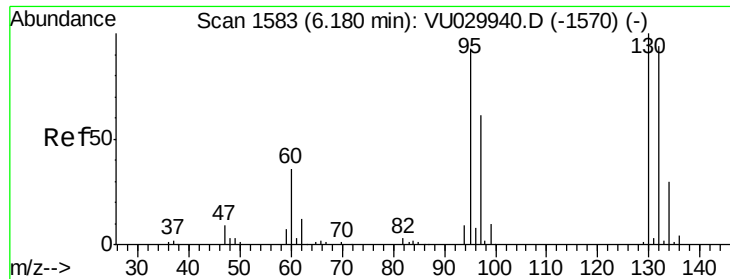
Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Tgt Ion: 78 Resp: 749401





#34

Trichloroethene

Concen: 50.373 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tgt Ion: 95 Resp: 194130

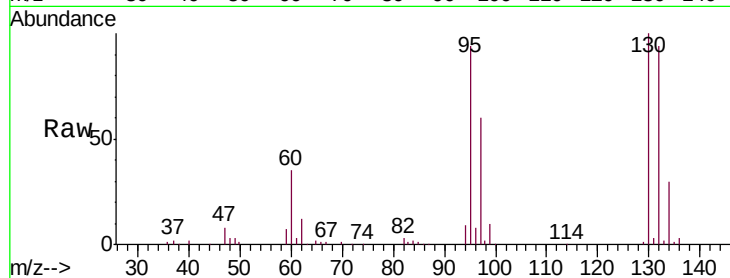
Ion Ratio Lower Upper

95 100

97 64.5 45.1 83.7

132 100.3 72.0 133.6

130 106.9 74.1 137.5

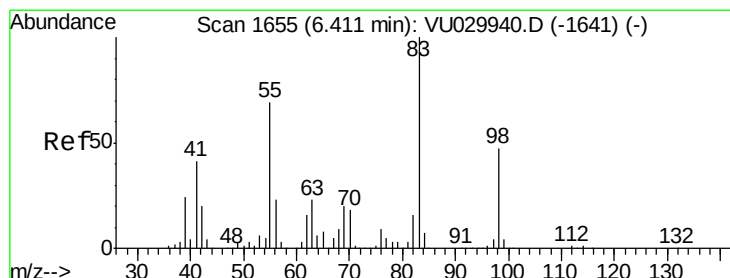
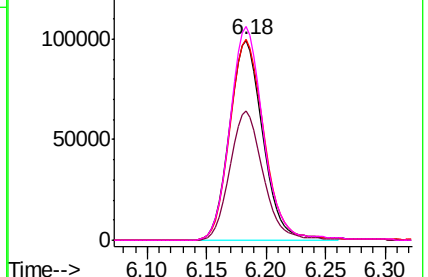
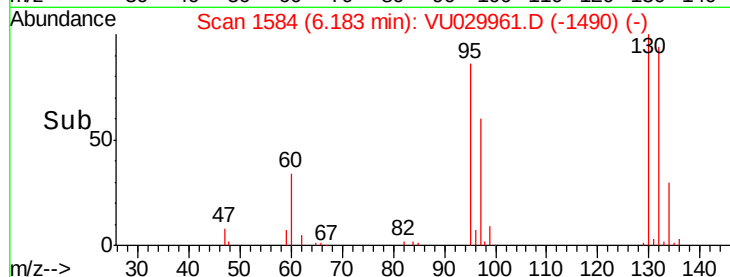


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 50.098 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

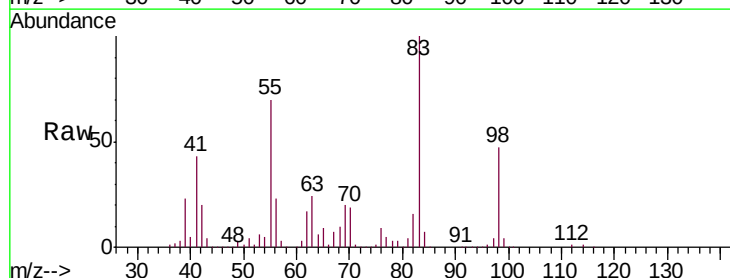
Tgt Ion: 83 Resp: 308088

Ion Ratio Lower Upper

83 100

55 70.7 55.5 83.3

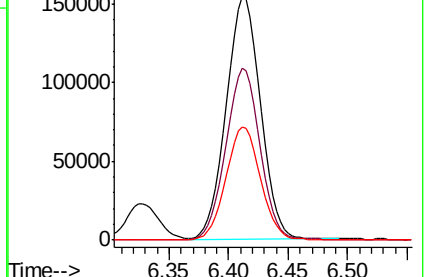
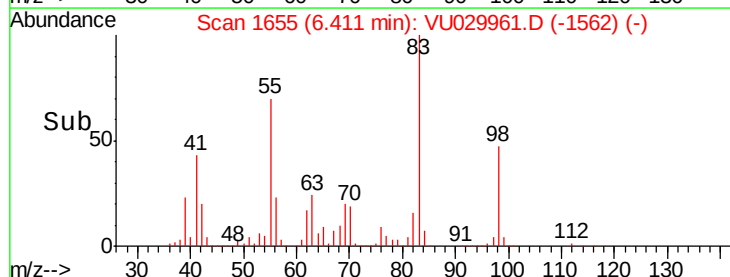
98 47.0 37.6 56.4

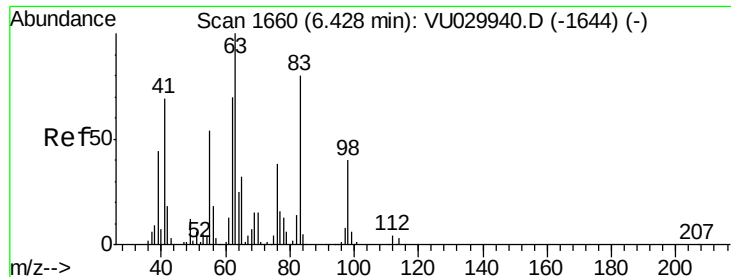


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

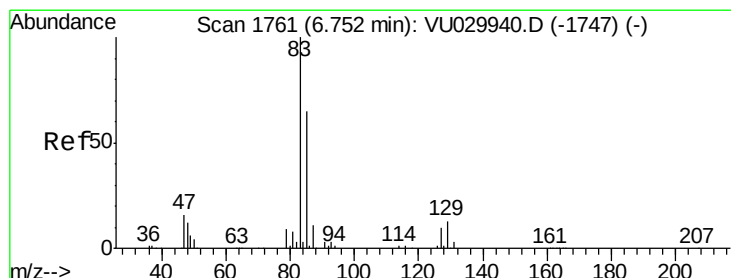
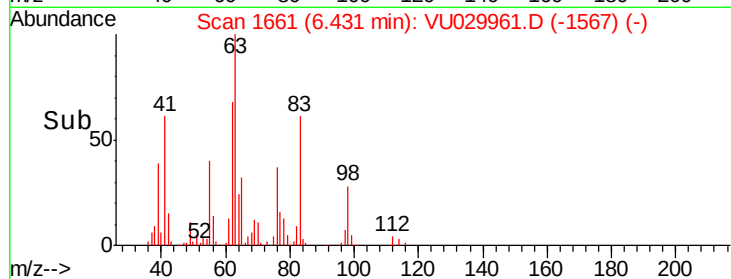
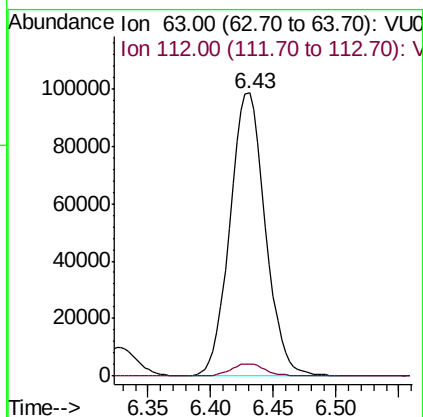
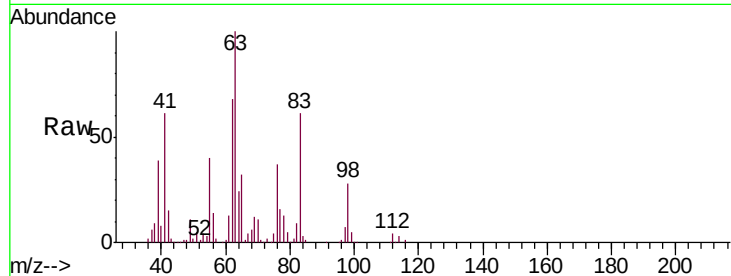




#37
 1,2-Dichloropropane
 Concen: 51.506 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

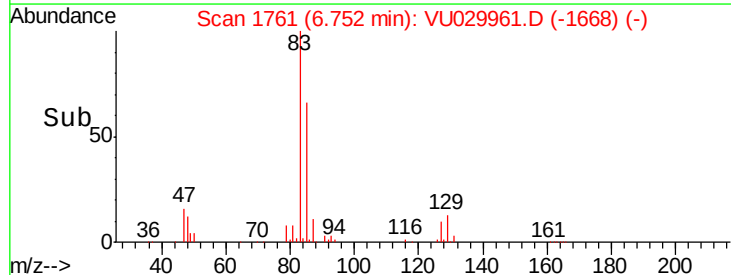
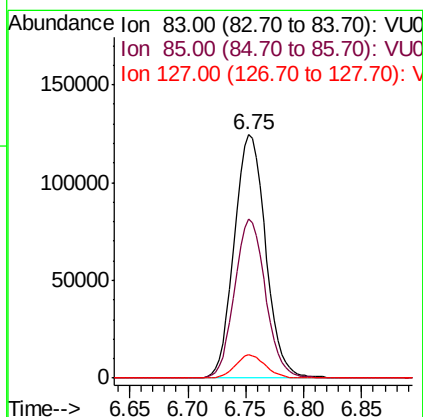
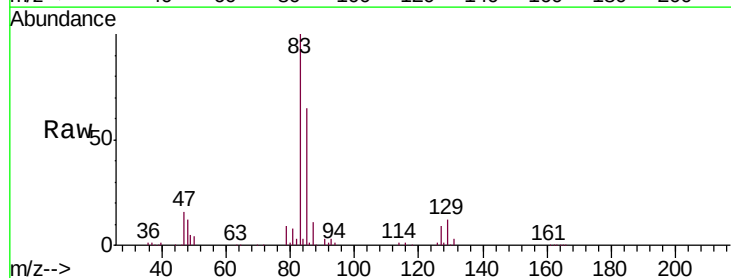
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

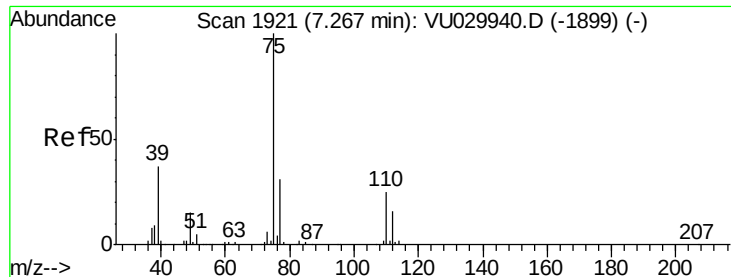
Tgt Ion: 63 Resp: 191936
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.4 5.0



#38
 Bromodichloromethane
 Concen: 50.079 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

Tgt Ion: 83 Resp: 233629
 Ion Ratio Lower Upper
 83 100
 85 65.2 45.2 84.0
 127 9.4 7.4 11.0

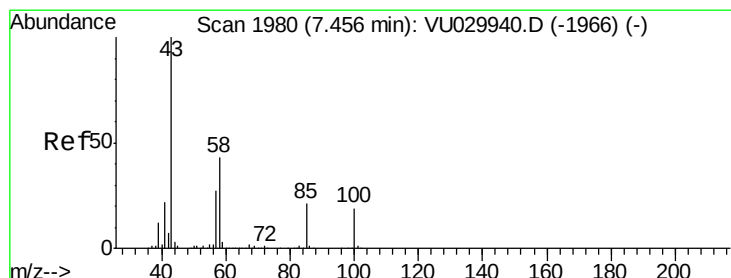
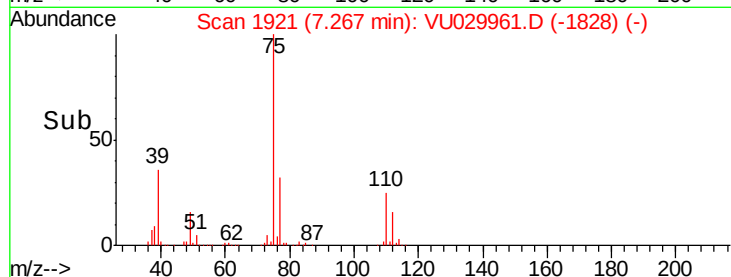
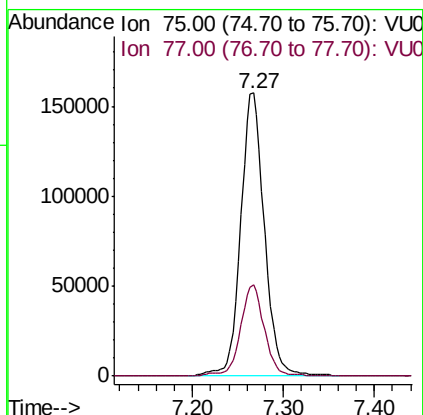
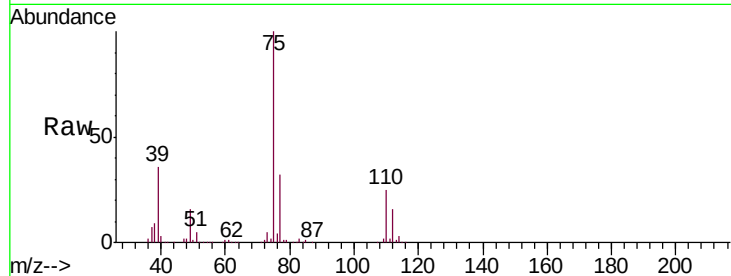




#39
 cis-1,3-Dichloropropene
 Concen: 50.290 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

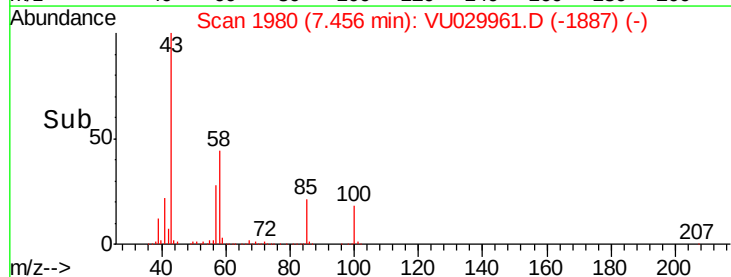
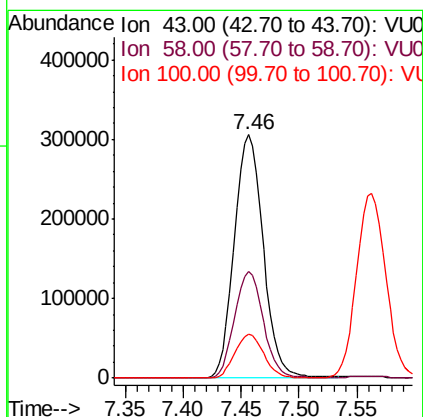
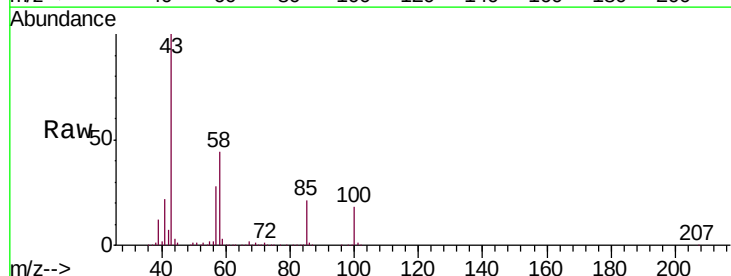
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

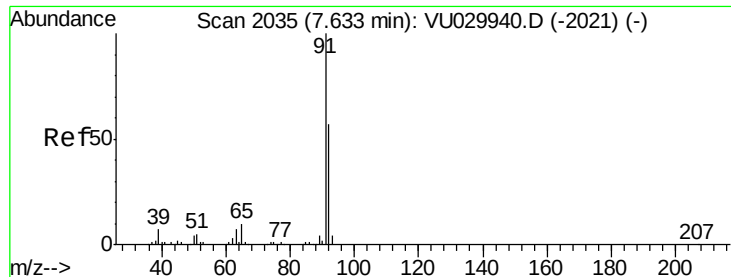
Tgt Ion: 75 Resp: 285211
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 106.890 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

Tgt Ion: 43 Resp: 531135
 Ion Ratio Lower Upper
 43 100
 58 43.6 35.0 52.6
 100 18.2 14.8 22.2





#42

Toluene

Concen: 52.718 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

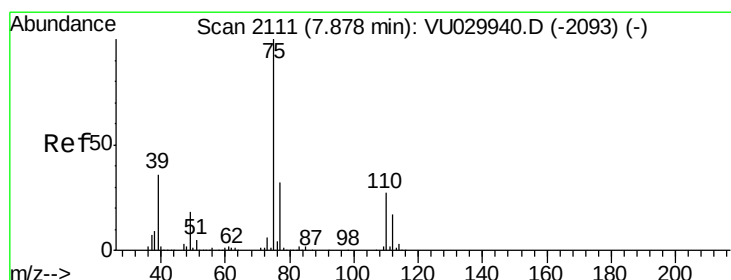
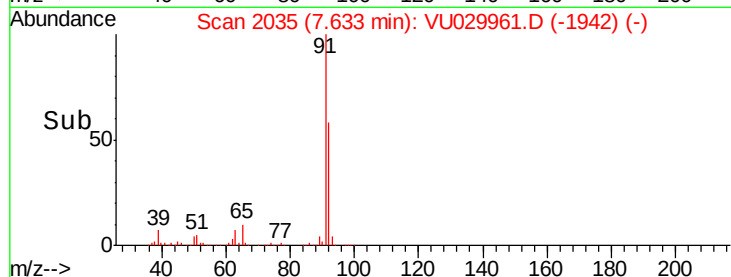
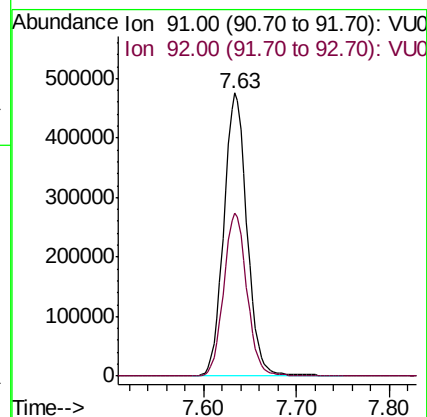
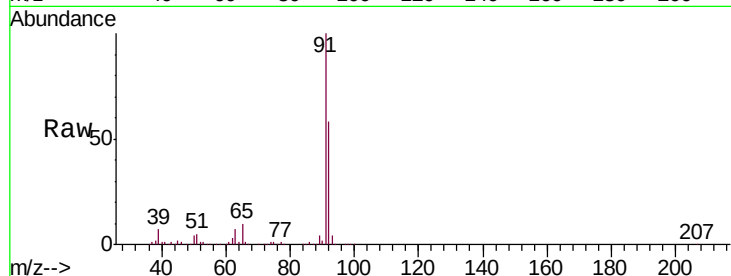
VSTD05057

Tgt Ion: 91 Resp: 824071

Ion Ratio Lower Upper

91 100

92 57.8 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 50.424 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU029961.D

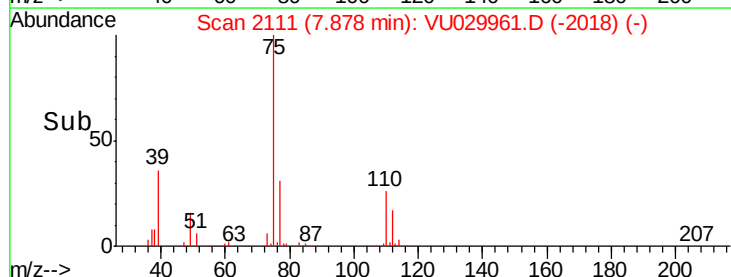
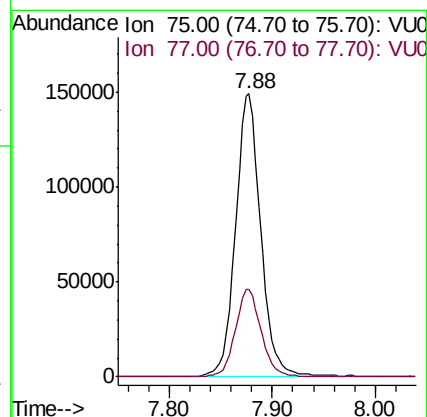
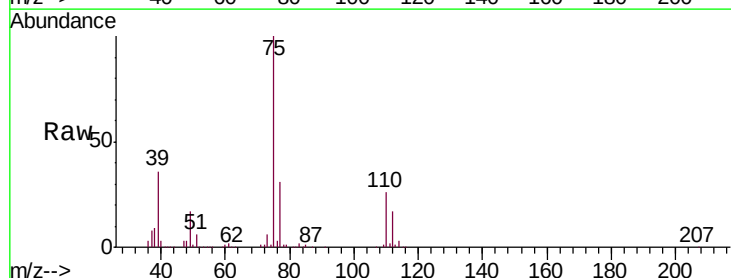
Acq: 10 Mar 2019 20:18

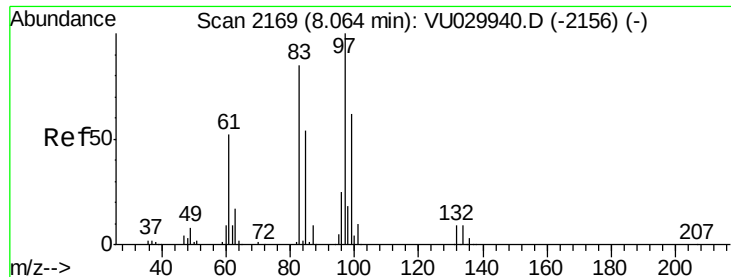
Tgt Ion: 75 Resp: 254772

Ion Ratio Lower Upper

75 100

77 30.9 21.8 40.6

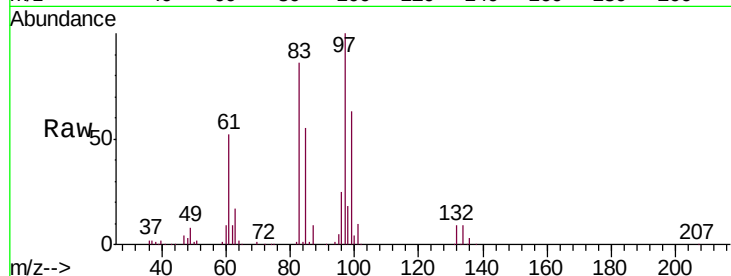




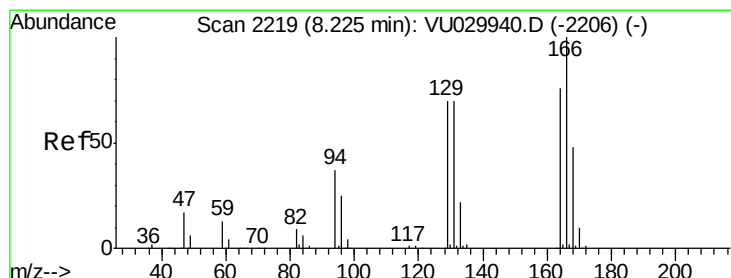
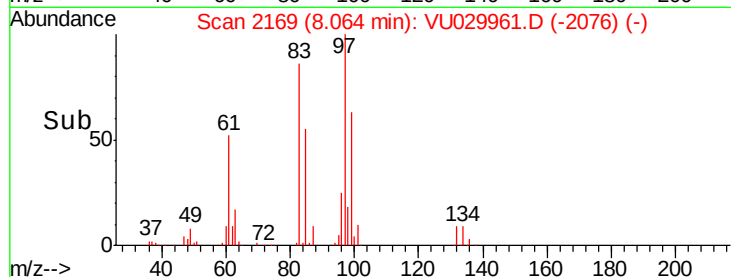
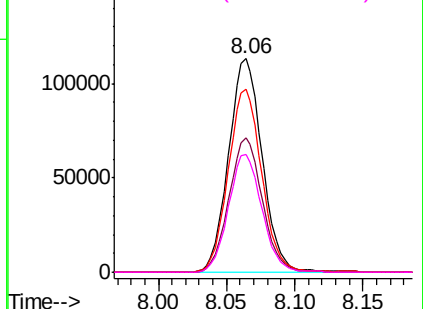
#45
 1,1,2-Trichloroethane
 Concen: 51.244 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion:	97	Resp:	193849
Ion	Ratio	Lower	Upper
97	100		
99	63.0	43.7	81.1
83	85.6	60.8	112.8
85	55.4	38.1	70.7

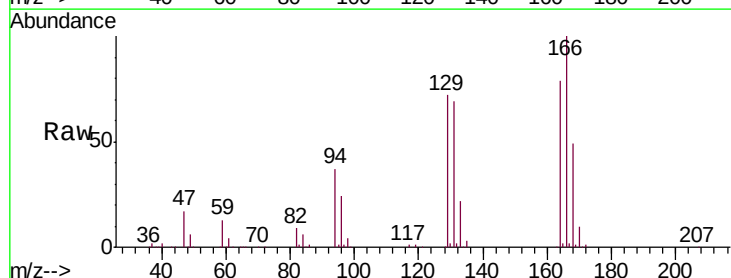


Abundance Ion 97.00 (96.70 to 97.70): VU029940.D (-2156) (-)

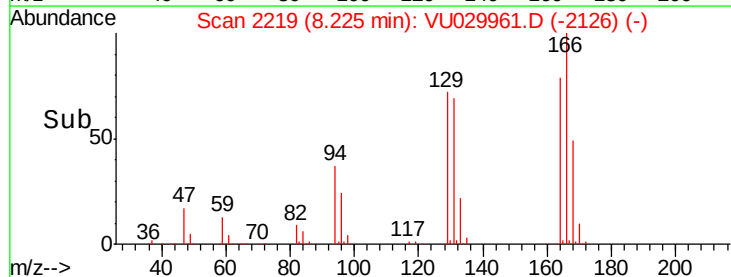
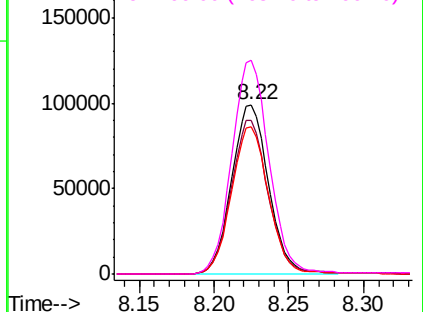


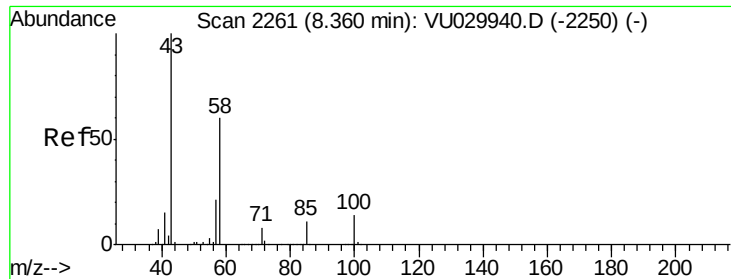
#46
 Tetrachloroethene
 Concen: 51.101 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

Tgt Ion:	164	Resp:	169610
Ion	Ratio	Lower	Upper
164	100		
129	90.9	61.0	113.2
131	87.2	60.5	112.3
166	126.0	88.3	163.9



Abundance Ion 164.00 (163.70 to 164.70): VU029940.D (-2206) (-)

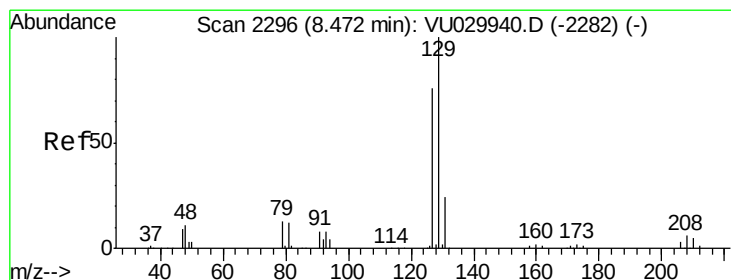
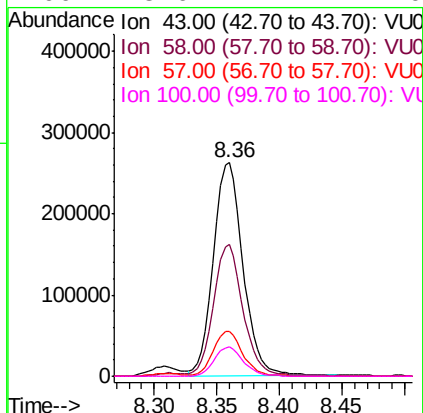
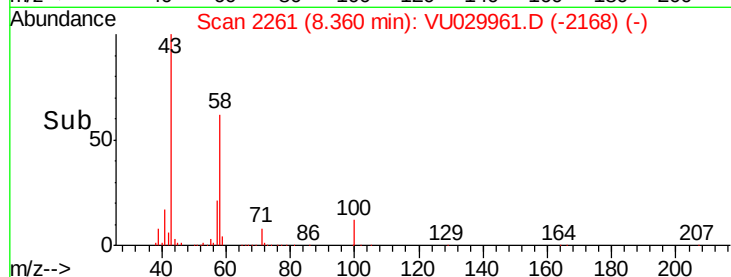
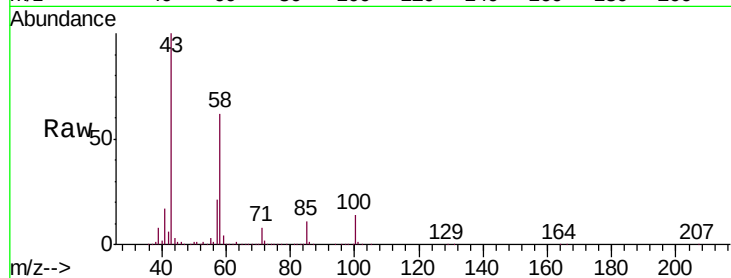




#48
2-Hexanone
Concen: 102.331 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU029961.D
Acq: 10 Mar 2019 20:18

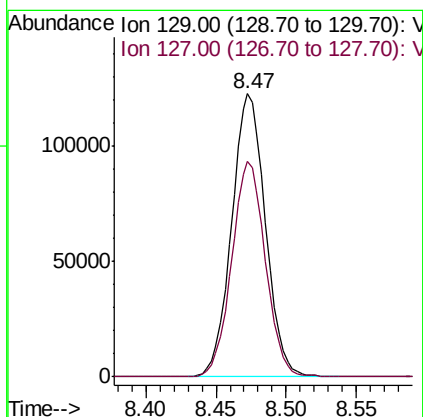
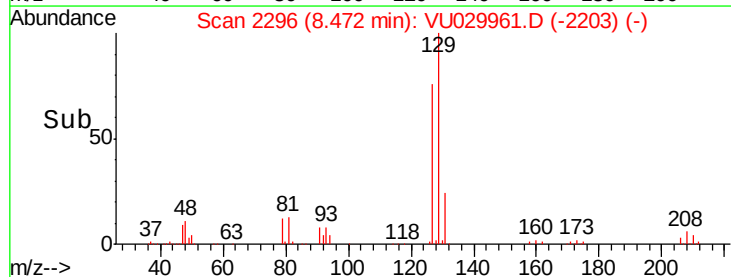
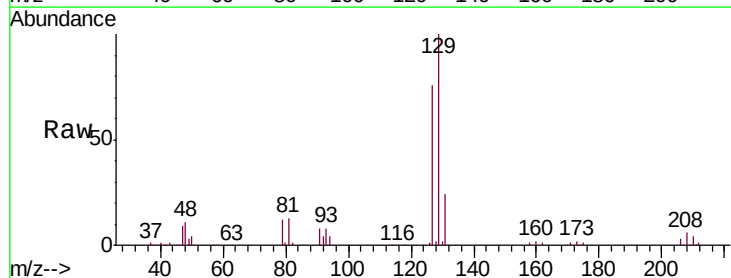
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

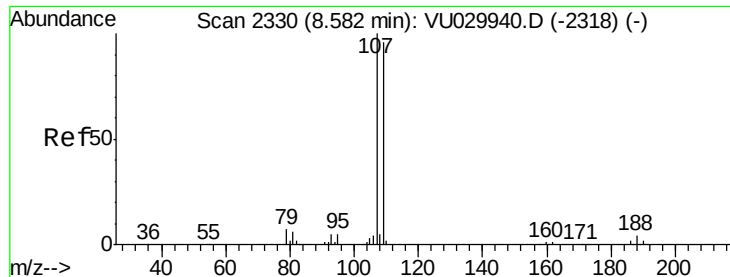
Tgt Ion: 43 Resp: 429856
Ion Ratio Lower Upper
43 100
58 60.6 49.2 73.8
57 20.9 16.6 25.0
100 13.6 11.4 17.0



#49
Dibromochloromethane
Concen: 49.792 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU029961.D
Acq: 10 Mar 2019 20:18

Tgt Ion: 129 Resp: 206158
Ion Ratio Lower Upper
129 100
127 76.1 54.3 100.8

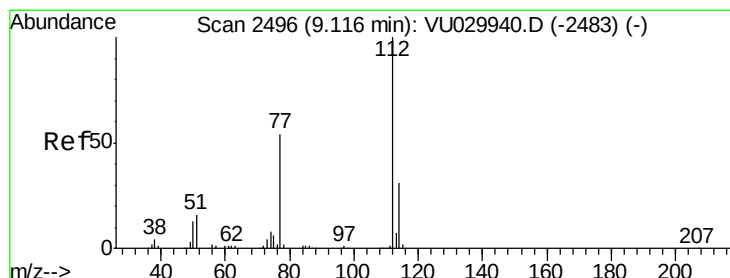
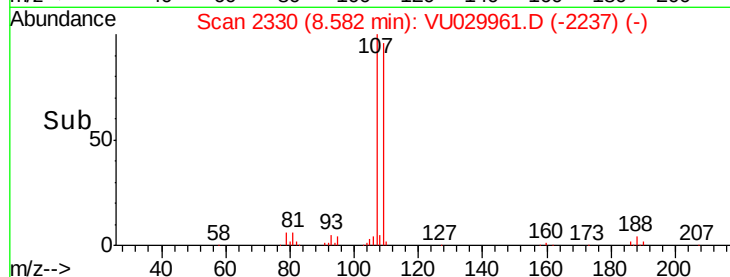
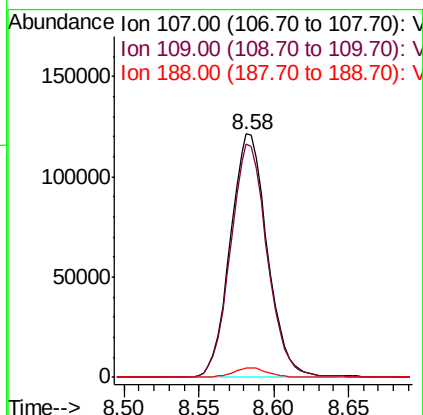
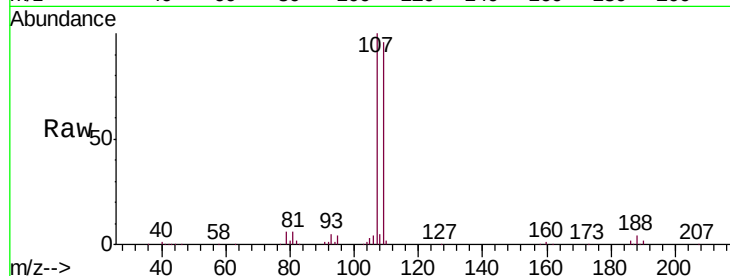




#50
1,2-Dibromoethane
Concen: 51.305 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU029961.D
Acq: 10 Mar 2019 20:18

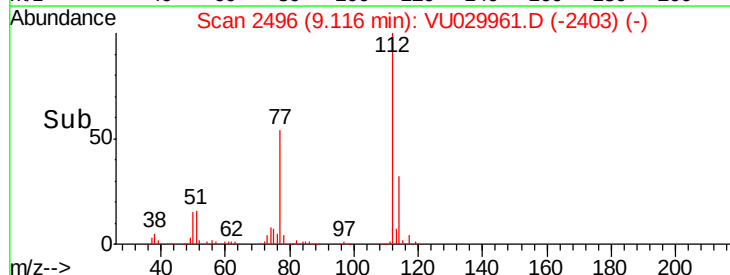
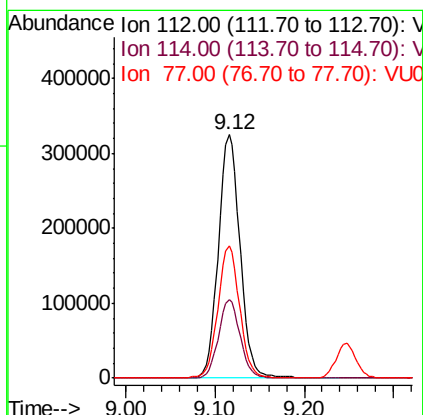
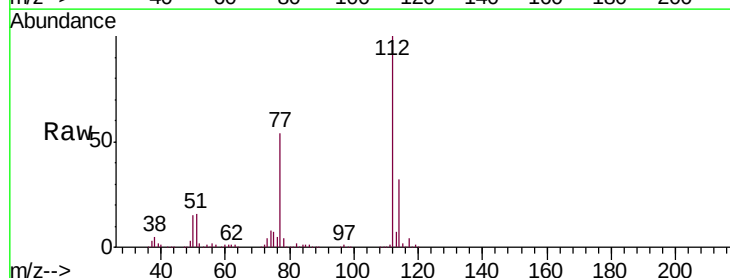
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

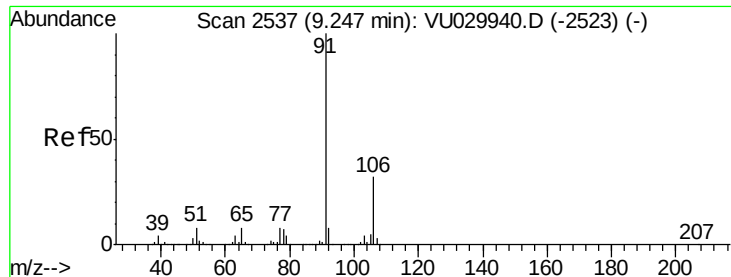
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.0	65.7	121.9
188	3.9	2.9	4.3



#51
Chlorobenzene
Concen: 51.668 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU029961.D
Acq: 10 Mar 2019 20:18

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.4	41.6
77	54.2	43.5	65.3





#52

Ethylbenzene

Concen: 51.992 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

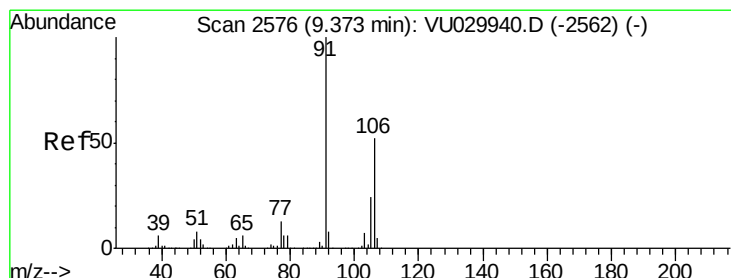
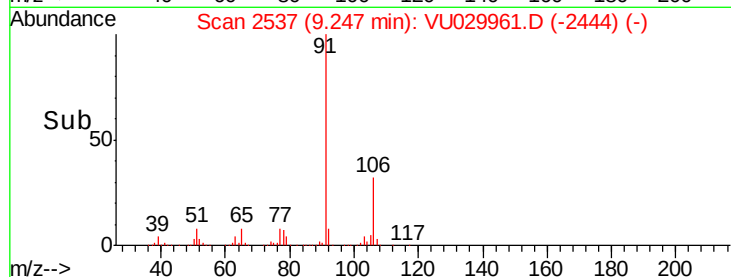
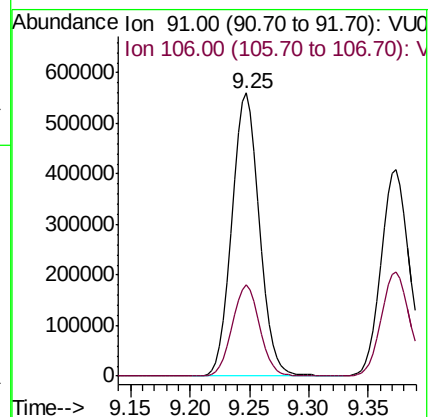
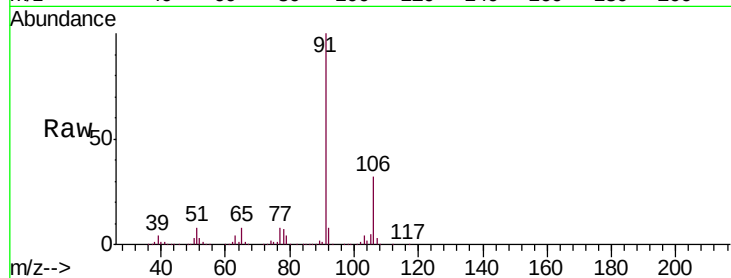
VSTD05057

Tgt Ion: 91 Resp: 898925

Ion Ratio Lower Upper

91 100

106 32.1 22.5 41.7



#53

m,p-Xylene

Concen: 51.934 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029961.D

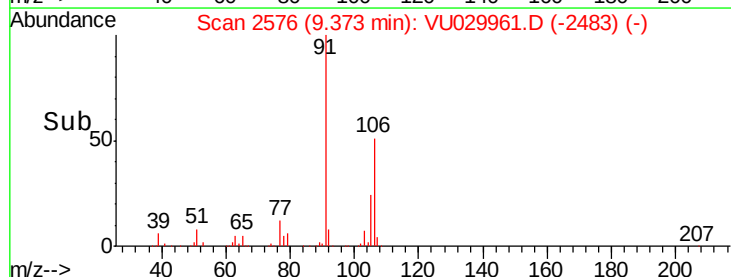
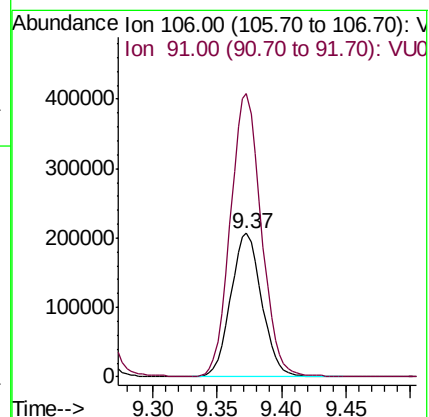
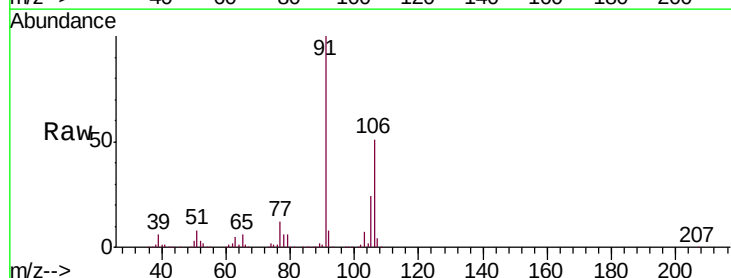
Acq: 10 Mar 2019 20:18

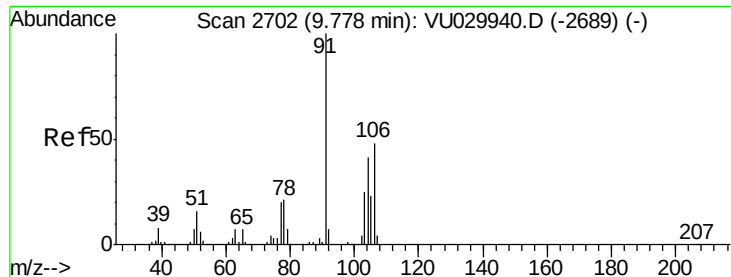
Tgt Ion: 106 Resp: 343755

Ion Ratio Lower Upper

106 100

91 197.1 137.8 256.0





#54

o-xylene

Concen: 52.318 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

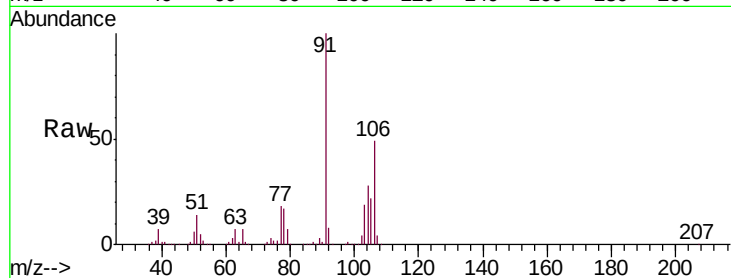
VSTD05057

Tgt Ion:106 Resp: 344769

Ion Ratio Lower Upper

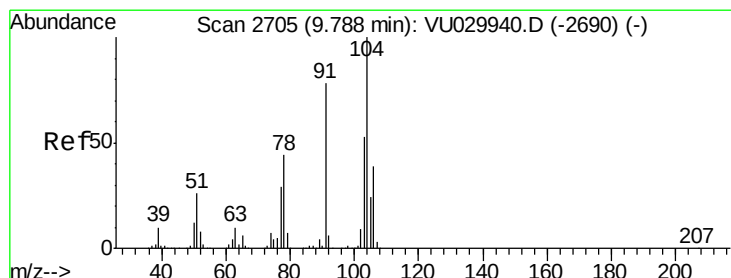
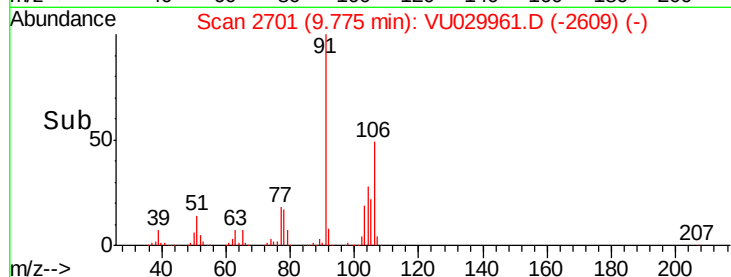
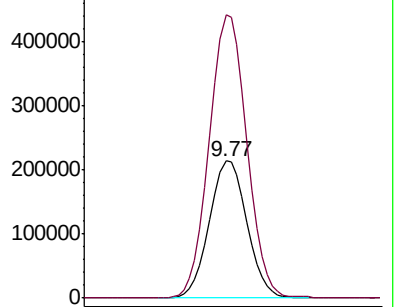
106 100

91 206.0 143.6 266.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.818 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU029961.D

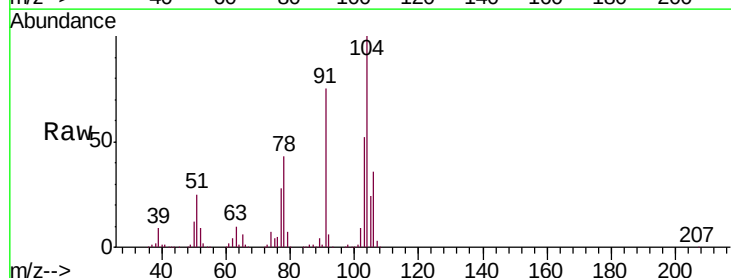
Acq: 10 Mar 2019 20:18

Tgt Ion:104 Resp: 543295

Ion Ratio Lower Upper

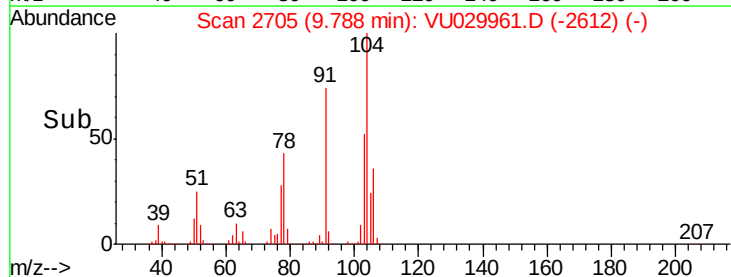
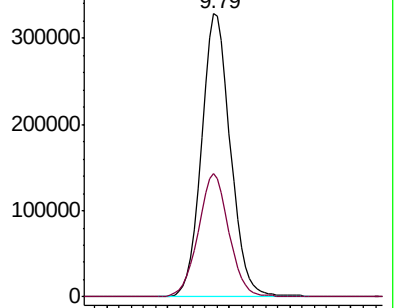
104 100

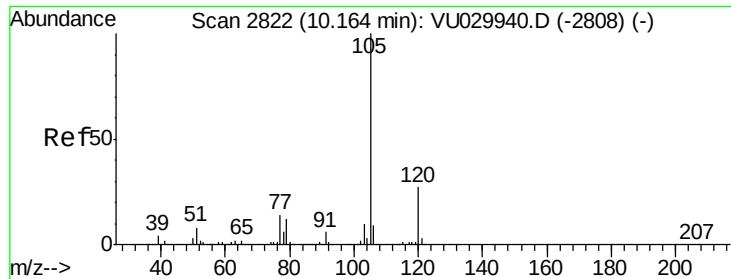
78 43.5 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.104 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

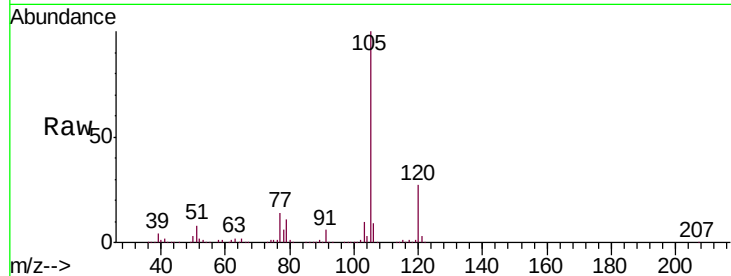
Tgt Ion: 105 Resp: 889213

Ion Ratio Lower Upper

105 100

120 27.4 21.6 32.4

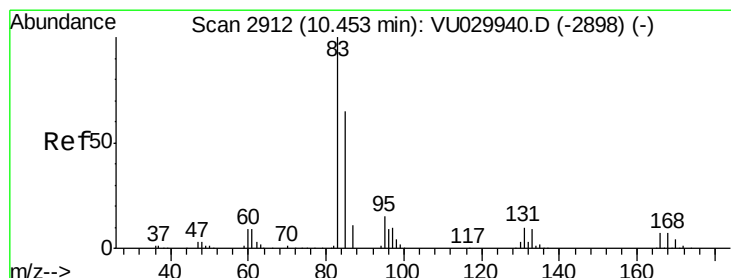
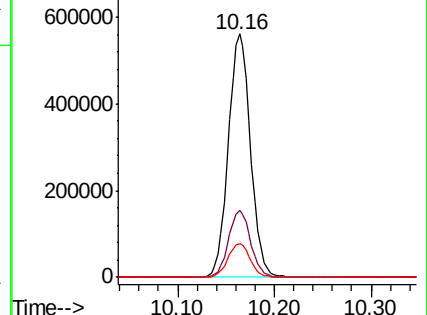
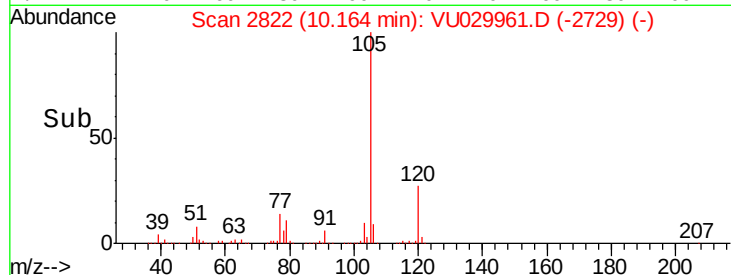
77 14.0 11.5 17.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.949 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

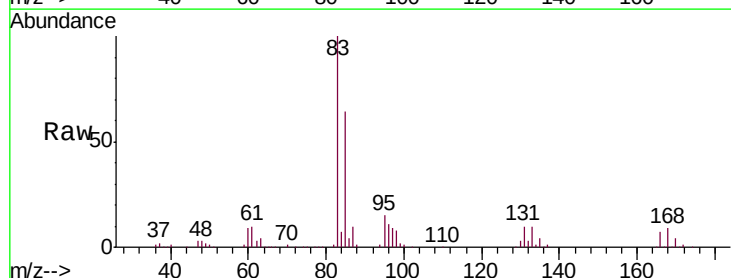
Tgt Ion: 83 Resp: 340291

Ion Ratio Lower Upper

83 100

85 63.8 45.0 83.6

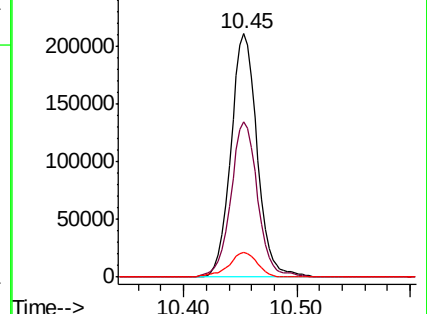
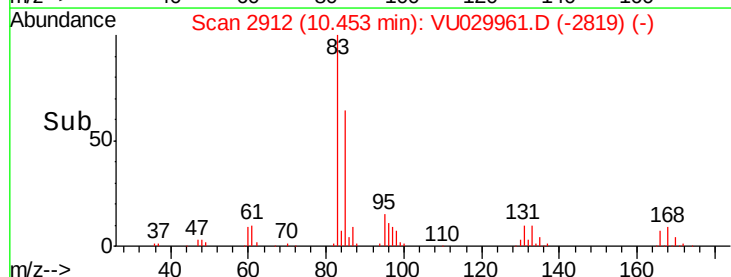
131 10.1 8.0 12.0

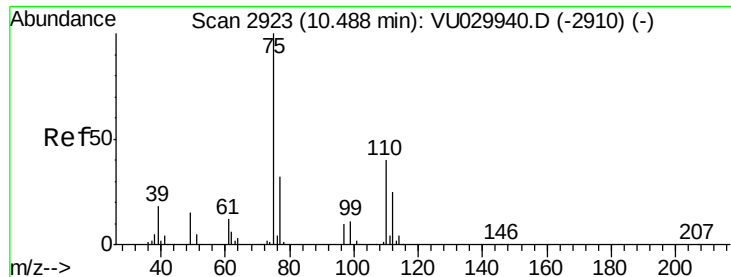


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 51.719 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

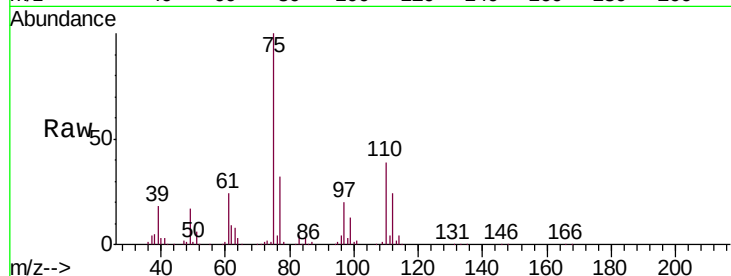
VSTD05057

Tgt Ion: 75 Resp: 255477

Ion Ratio Lower Upper

75 100

77 32.5 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU029940.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU029940.D (-2910) (-)

10.49

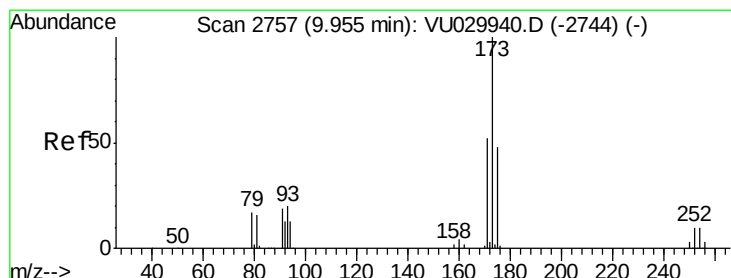
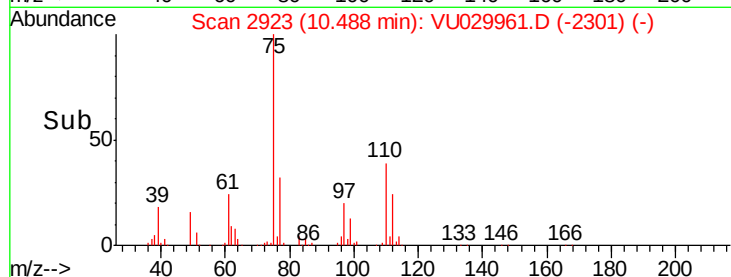
150000

100000

50000

0

Time--> 10.40 10.45 10.50 10.55



#61

Bromoform

Concen: 47.551 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

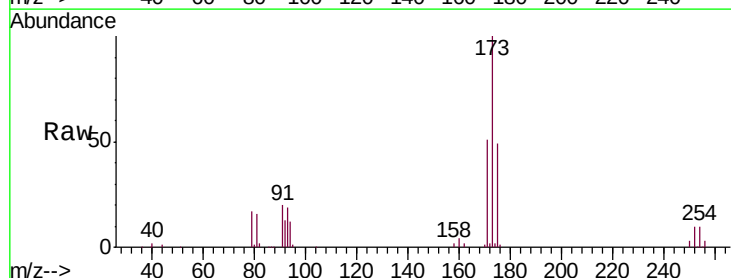
Tgt Ion: 173 Resp: 156903

Ion Ratio Lower Upper

173 100

175 49.4 38.7 58.1

254 9.4 7.4 11.2



Abundance Ion 173.00 (172.70 to 173.70): VU029940.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU029940.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU029940.D (-2744) (-)

120000

100000

80000

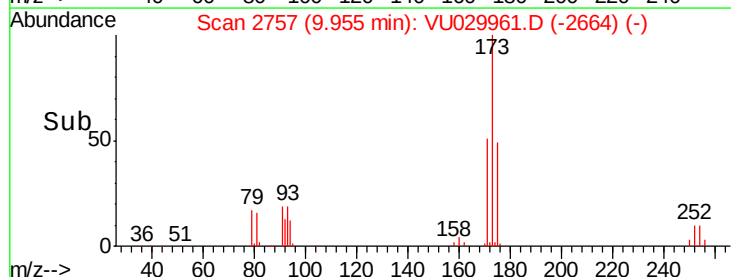
60000

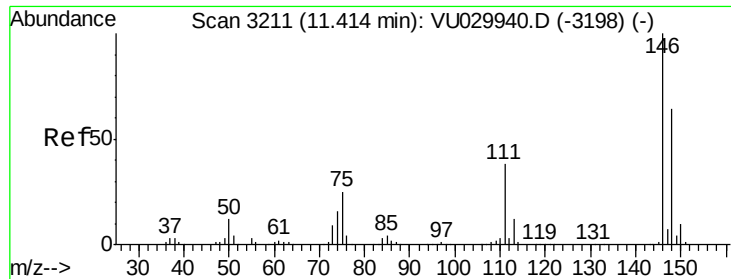
40000

20000

0

Time--> 9.90 9.95 10.00





#62

1,3-Dichlorobenzene

Concen: 50.500 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

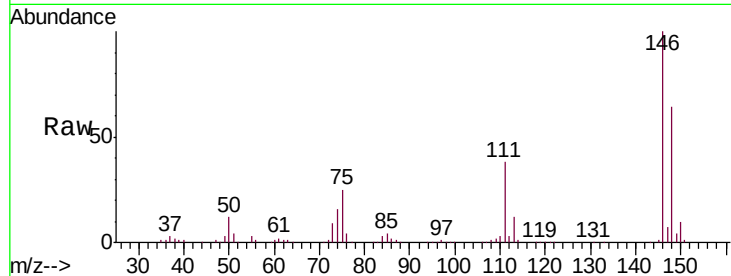
Tgt Ion:146 Resp: 437525

Ion Ratio Lower Upper

146 100

111 37.9 25.7 47.7

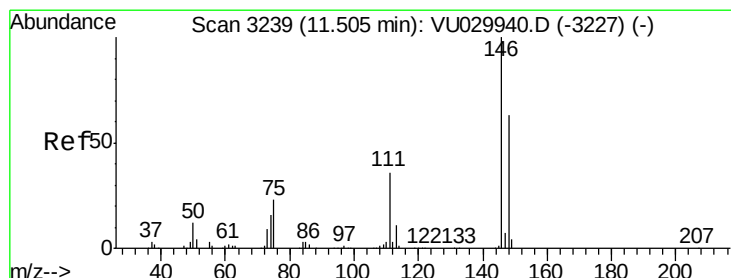
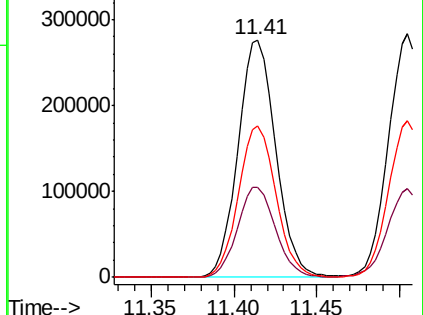
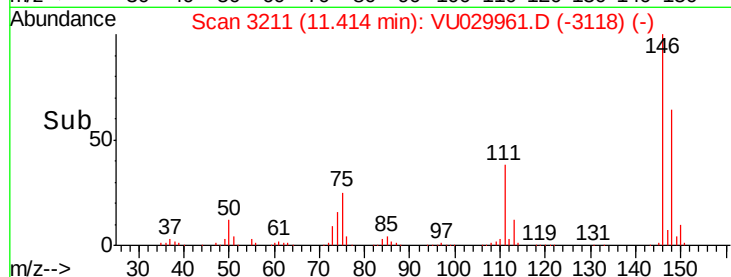
148 63.6 44.2 82.0



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: 49.285 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

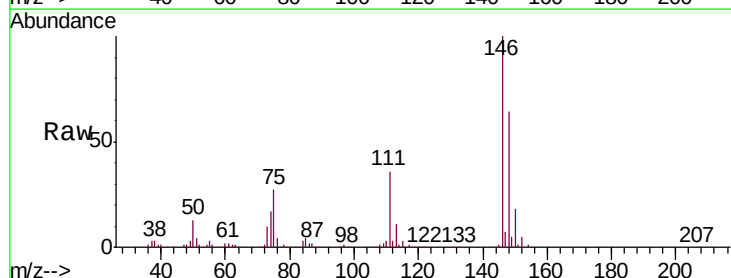
Tgt Ion:146 Resp: 437239

Ion Ratio Lower Upper

146 100

111 36.4 25.3 46.9

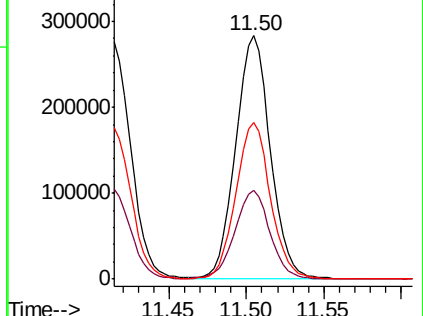
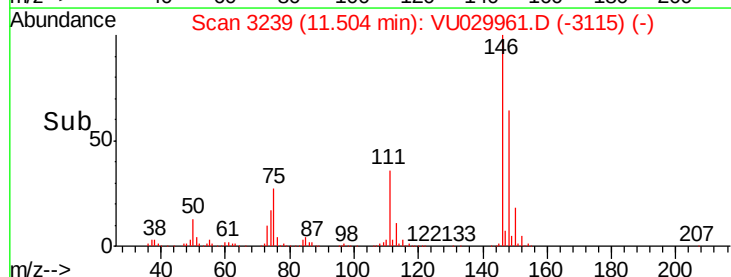
148 64.2 44.9 83.3

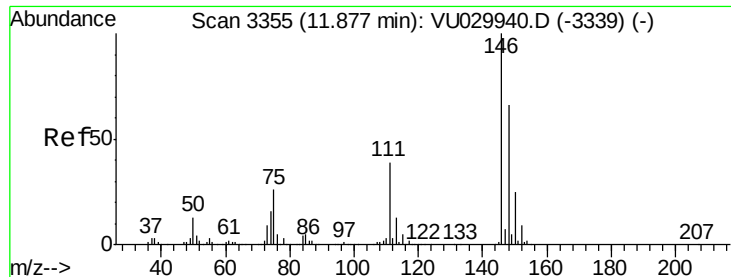


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

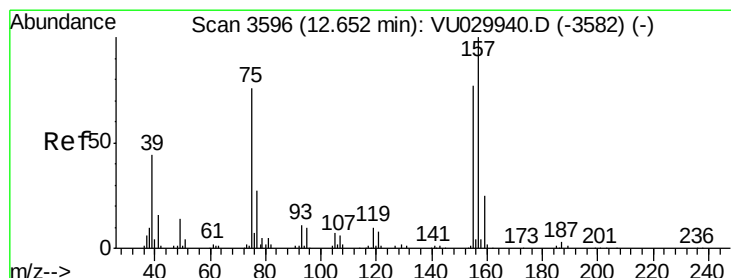
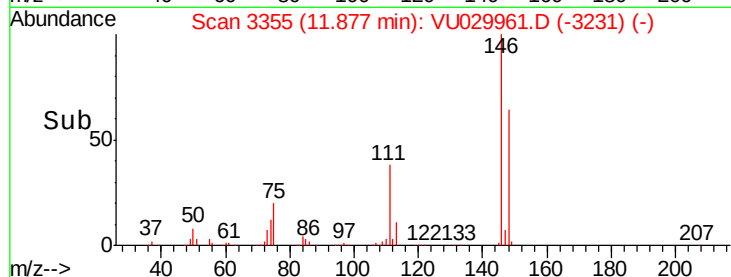
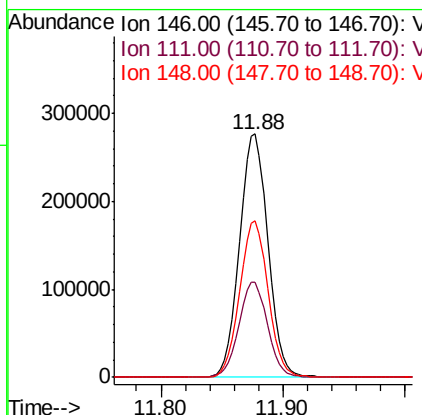
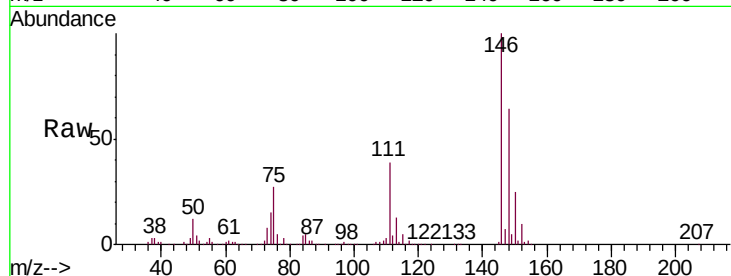




#65
 1,2-Dichlorobenzene
 Concen: 50.306 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

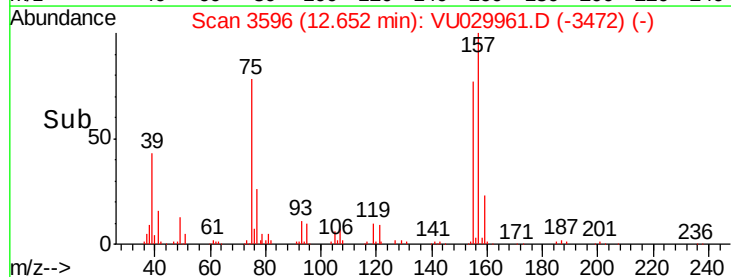
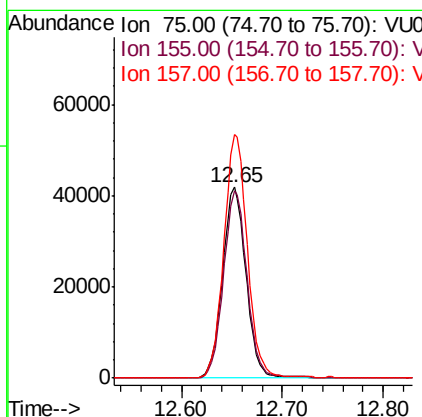
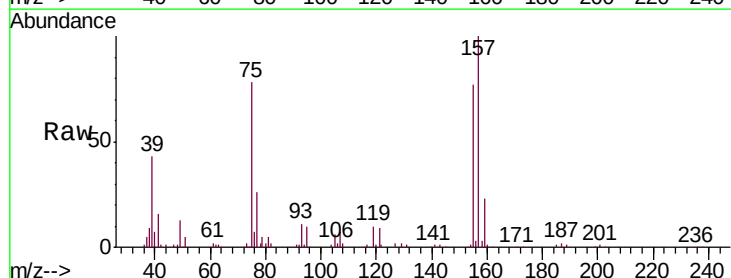
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

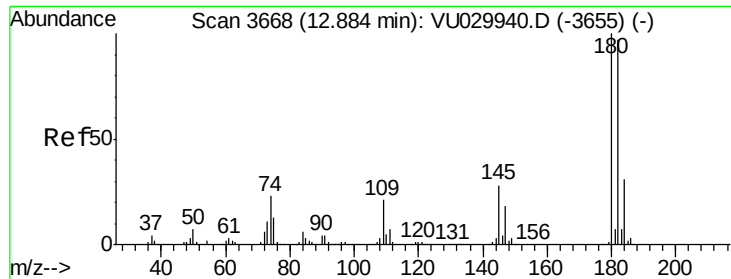
Tgt Ion:146 Resp: 444573
 Ion Ratio Lower Upper
 146 100
 111 38.9 31.8 47.6
 148 64.1 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.561 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

Tgt Ion: 75 Resp: 68643
 Ion Ratio Lower Upper
 75 100
 155 98.0 79.8 119.8
 157 127.6 98.8 148.2

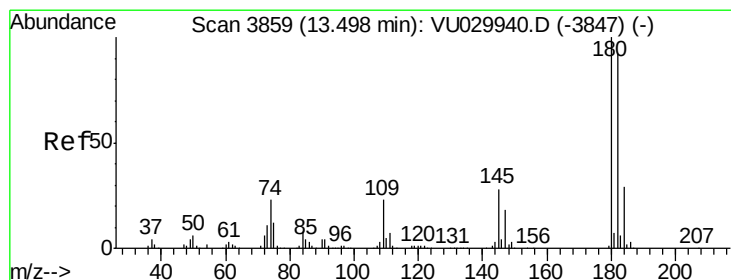
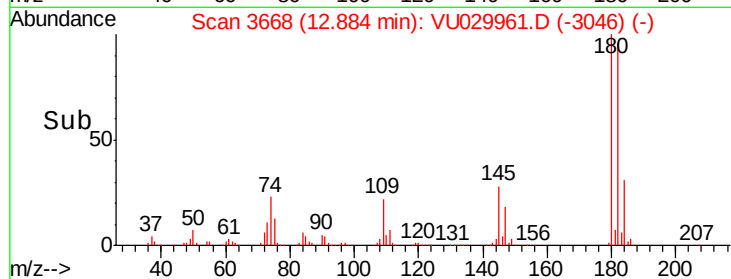
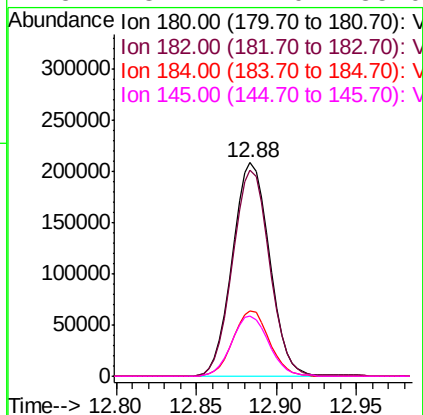
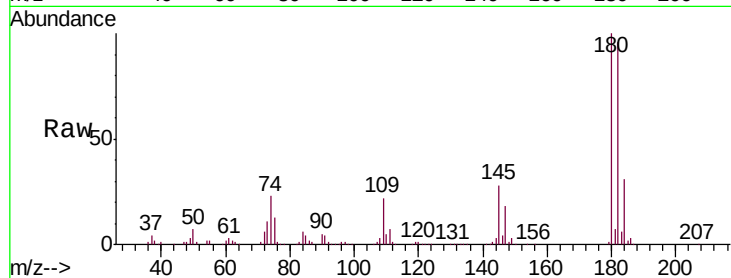




#67
 1,3,5-Trichlorobenzene
 Concen: 50.169 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

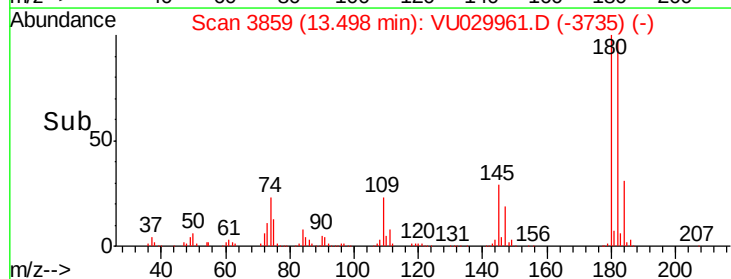
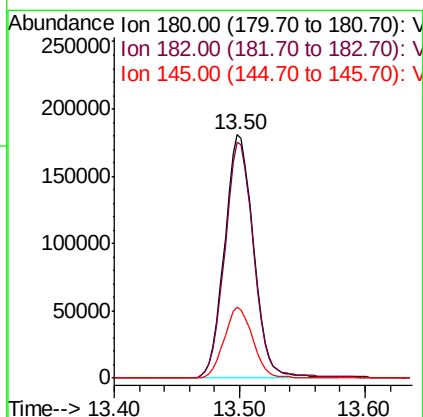
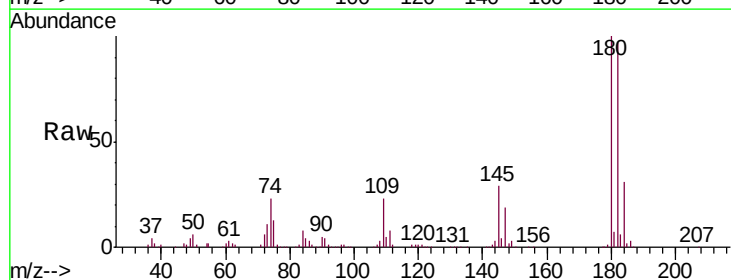
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

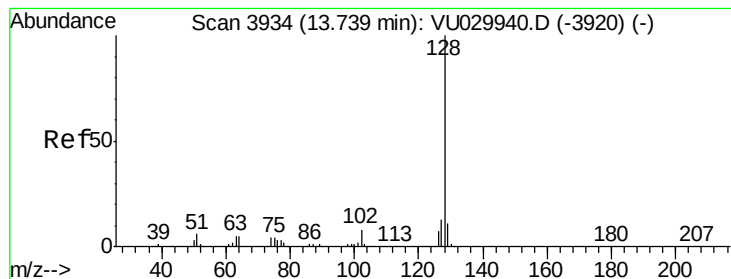
Tgt Ion:	180	Resp:	329887
Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.7	115.1
184	29.8	24.2	36.4
145	28.2	22.0	33.0



#68
 1,2,4-trichlorobenzene
 Concen: 49.506 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU029961.D
 Acq: 10 Mar 2019 20:18

Tgt Ion:	180	Resp:	290410
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.0	114.0
145	28.8	22.7	34.1





#69

Naphthalene

Concen: 49.546 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

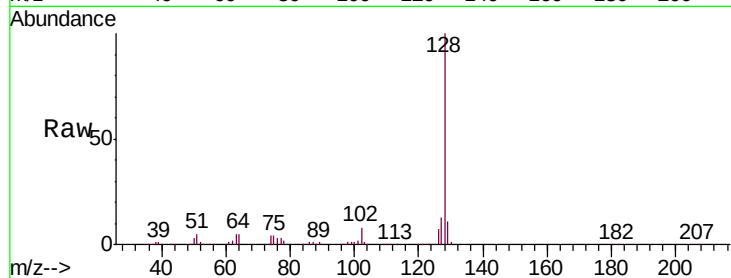
Tgt Ion:128 Resp: 898210

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

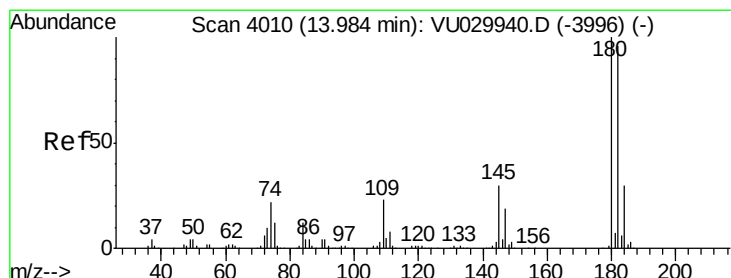
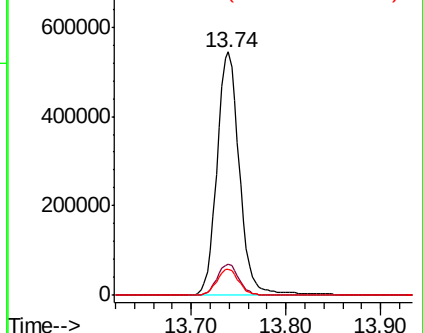
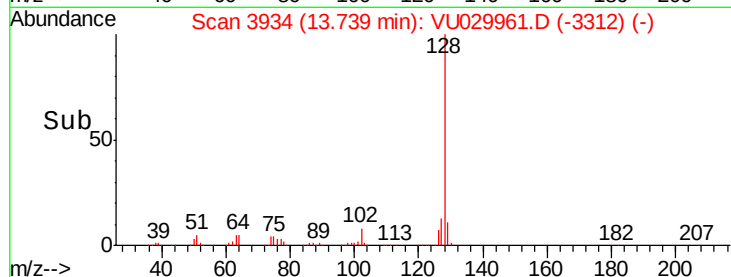
129 10.5 8.7 13.1



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: 48.866 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029961.D

Acq: 10 Mar 2019 20:18

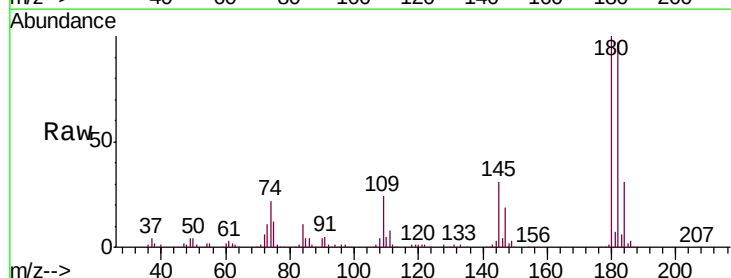
Tgt Ion:180 Resp: 300991

Ion Ratio Lower Upper

180 100

182 96.4 76.3 114.5

145 30.3 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

