

Data File : VU033009.D
Acq On : 24 Jun 2019 16:44
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

Quant Time: Jun 25 05:28:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 25 05:22:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	199368	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	197662	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	107901	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	56262	41.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.58%
7) Chloroethane-d5	1.67	69	48557	44.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.36%
11) 1,1-Dichloroethene-d2	2.27	63	125527	45.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.46%
21) 2-Butanone-d5	4.17	46	124504	109.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.79%
24) Chloroform-d	4.64	84	135423	51.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.26%
26) 1,2-Dichloroethane-d4	5.30	65	90650	51.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.76%
32) Benzene-d6	5.33	84	251363	48.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.56%
36) 1,2-Dichloropropane-d6	6.32	67	81696	49.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.54%
41) Toluene-d8	7.56	98	234182	48.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.06%
43) trans-1,3-Dichloropropene-	7.84	79	43396	50.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.64%
47) 2-Hexanone-d5	8.31	63	77515	101.14	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.14%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	126487	49.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.70%
64) 1,2-Dichlorobenzene-d4	11.85	152	101257	48.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.98%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	105131	52.204	ug/L	99
3) Chloromethane	1.32	50	86924	47.623	ug/L	98
5) Vinyl chloride	1.40	62	90482	49.978	ug/L	98
6) Bromomethane	1.62	94	52178	48.979	ug/L	99
8) Chloroethane	1.69	64	53235	51.082	ug/L	99
9) Trichlorofluoromethane	1.88	101	131023	51.585	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	69116	51.879	ug/L	97
12) 1,1-Dichloroethene	2.28	96	62167	49.516	ug/L	94
13) Acetone	2.32	43	132402	84.528	ug/L	97
14) Carbon disulfide	2.47	76	190665	47.994	ug/L	100
15) Methyl Acetate	2.61	43	95695	53.896	ug/L	98
16) Methylene chloride	2.69	84	75307	51.118	ug/L	98
17) trans-1,2-Dichloroethene	2.97	96	67929	49.894	ug/L	96
18) Methyl tert-butyl Ether	2.99	73	230960	52.837	ug/L	98
19) 1,1-Dichloroethane	3.44	63	138590	53.395	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	77431	52.206	ug/L	95
22) 2-Butanone	4.25	43	157293	96.885	ug/L	98

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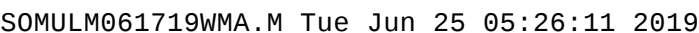
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

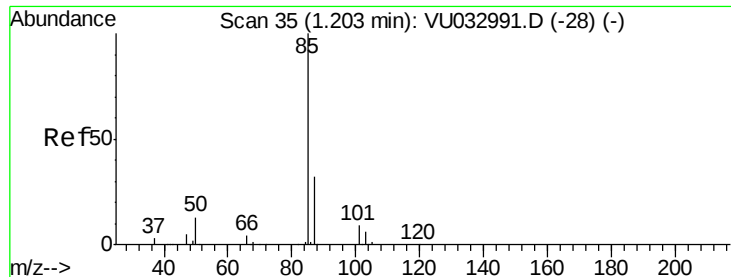
Quant Time: Jun 25 05:28:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	40493	52.335	ug/L	96
25) Chloroform	4.67	83	142653	53.295	ug/L	97
27) 1,2-Dichloroethane	5.40	62	122836	55.862	ug/L	98
29) Cyclohexane	4.99	56	120464	52.194	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	125474	52.104	ug/L	98
31) Carbon tetrachloride	5.13	117	113094	51.614	ug/L	99
33) Benzene	5.38	78	294032	51.637	ug/L	100
34) Trichloroethene	6.18	95	78734	51.751	ug/L	98
35) Methylcyclohexane	6.41	83	123332	52.444	ug/L	98
37) 1,2-Dichloropropane	6.42	63	80987	51.850	ug/L	99
38) Bromodichloromethane	6.75	83	109132	51.961	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	126000	51.778	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	269531	108.085	ug/L	98
42) Toluene	7.63	91	322630	52.368	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	120336	52.649	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	75730	52.091	ug/L	98
46) Tetrachloroethene	8.22	164	65375	52.440	ug/L	97
48) 2-Hexanone	8.36	43	219855	99.925	ug/L	100
49) Dibromochloromethane	8.47	129	89528	51.083	ug/L	96
50) 1,2-Dibromoethane	8.58	107	83319	51.606	ug/L	100
51) Chlorobenzene	9.11	112	210165	51.840	ug/L	98
52) Ethylbenzene	9.24	91	363227	53.264	ug/L	99
53) m,p-Xylene	9.37	106	134711	52.357	ug/L	96
54) o-xylene	9.77	106	132484	52.727	ug/L	98
55) Styrene	9.78	104	229257	52.595	ug/L	95
56) Isopropylbenzene	10.16	105	359721	53.123	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	136334	51.825	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	109404	52.485	ug/L	99
61) Bromoform	9.95	173	68025	48.281	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	172548	51.447	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	174934	50.498	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	171482	50.075	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	31889	48.809	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	138964	51.566	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	120493	51.963	ug/L	100
69) Naphthalene	13.74	128	368553	51.693	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	124467	50.704	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 52.204 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

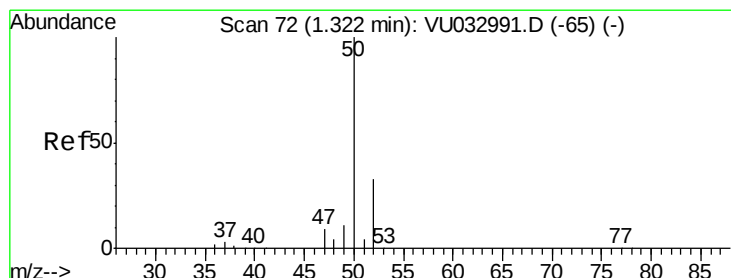
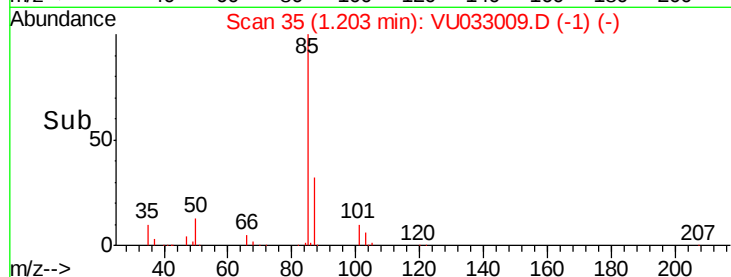
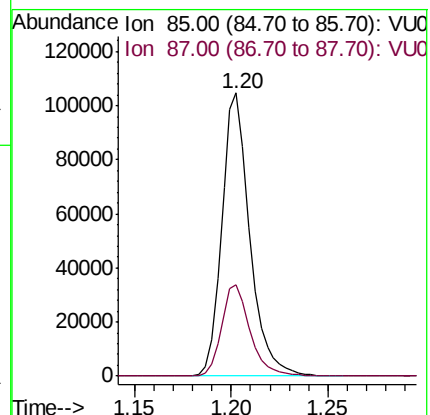
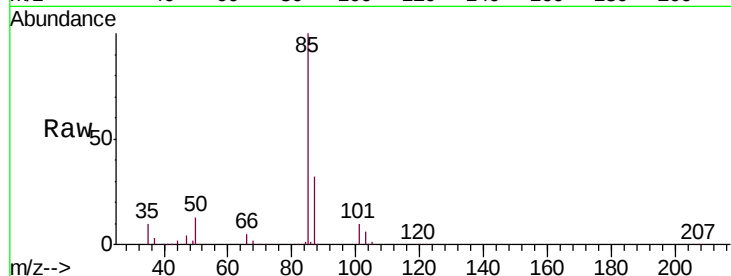
VSTD05037

Tgt Ion: 85 Resp: 105131

Ion Ratio Lower Upper

85 100

87 32.9 25.8 38.8



#3

Chloromethane

Concen: 47.623 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU033009.D

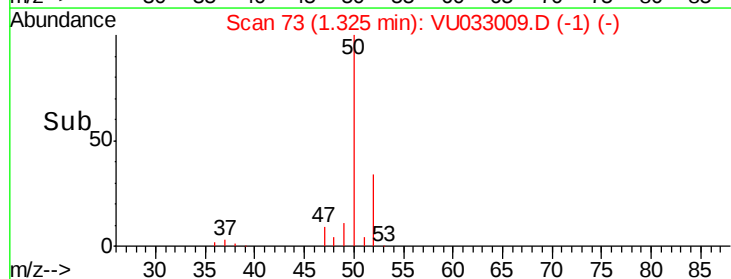
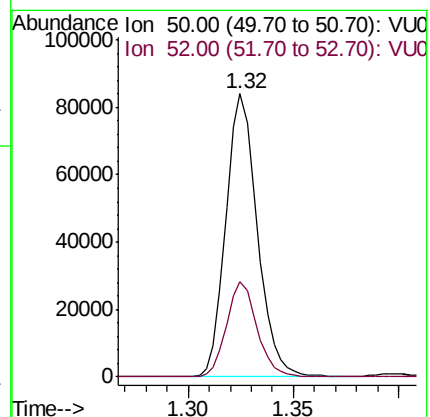
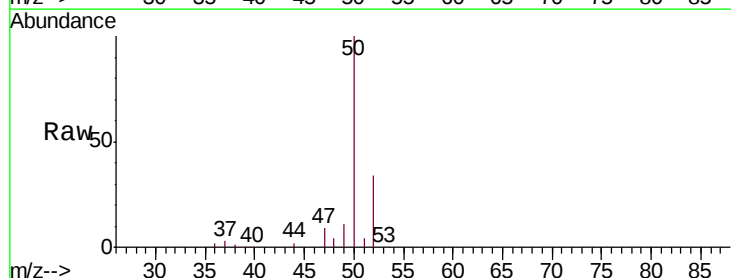
Acq: 24 Jun 2019 16:44

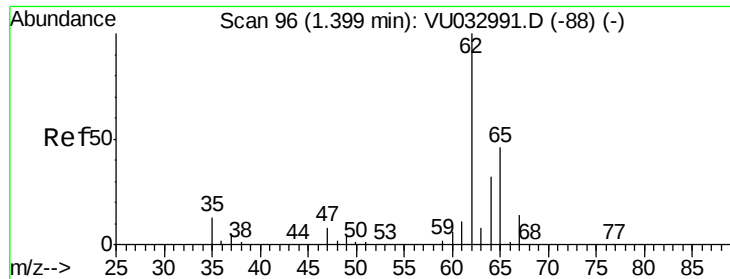
Tgt Ion: 50 Resp: 86924

Ion Ratio Lower Upper

50 100

52 33.7 23.0 42.6





#5

Vinyl chloride

Concen: 49.978 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

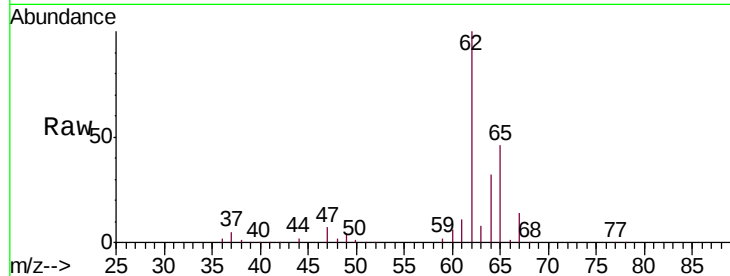
VSTD05037

Tgt Ion: 62 Resp: 90482

Ion Ratio Lower Upper

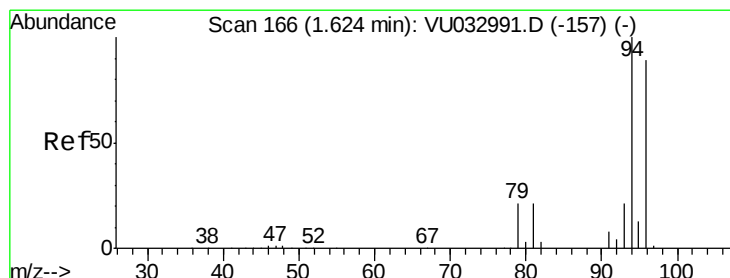
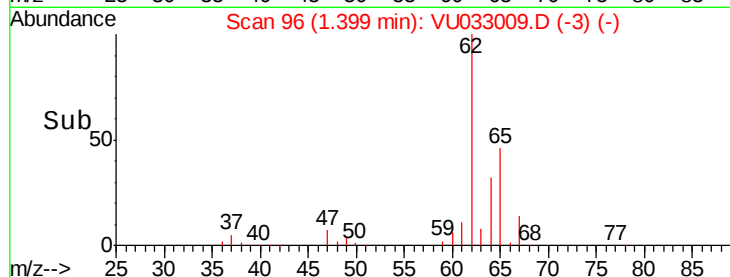
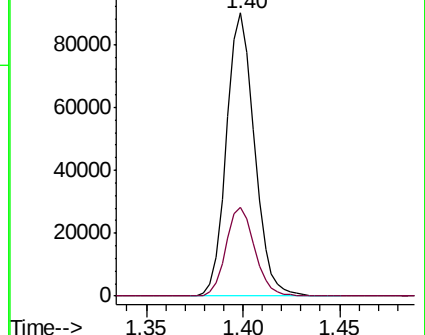
62 100

64 31.5 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU033009.D (-3) (-)

Ion 64.00 (63.70 to 64.70): VU033009.D (-3) (-)



#6

Bromomethane

Concen: 48.979 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.01 min

Lab File: VU033009.D

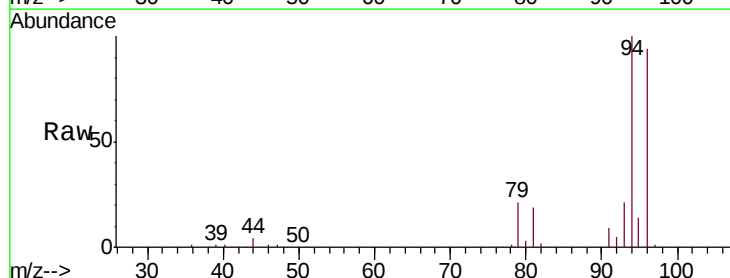
Acq: 24 Jun 2019 16:44

Tgt Ion: 94 Resp: 52178

Ion Ratio Lower Upper

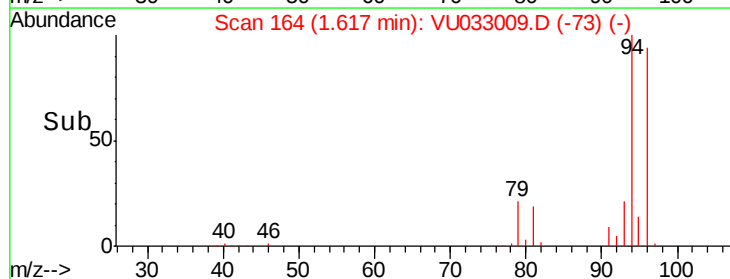
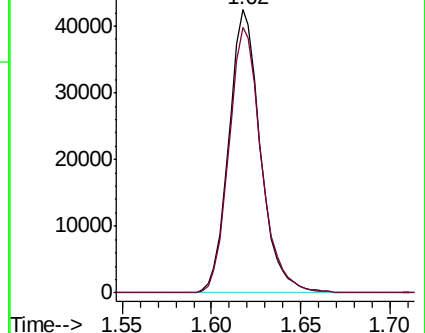
94 100

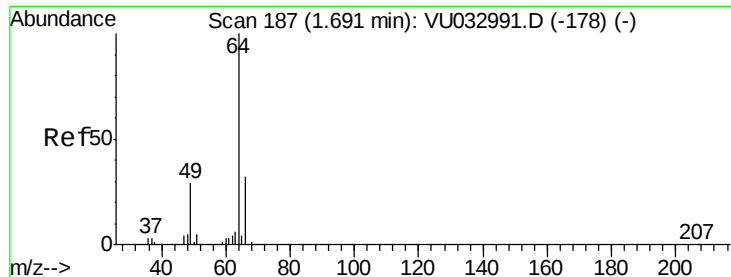
96 93.7 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU033009.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU033009.D (-73) (-)





#8

Chloroethane

Concen: 51.082 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

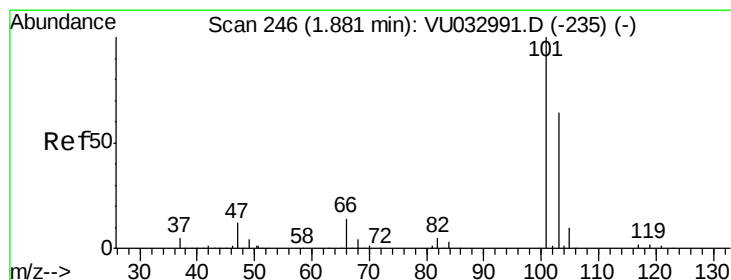
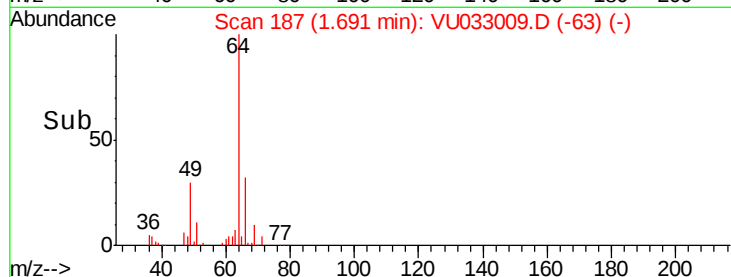
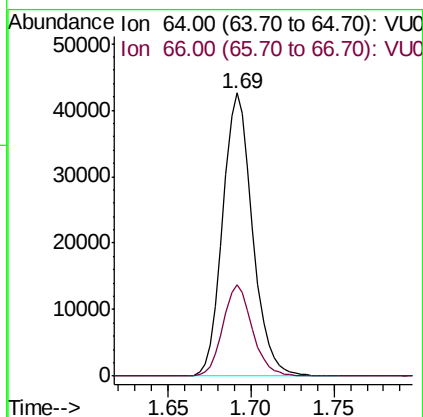
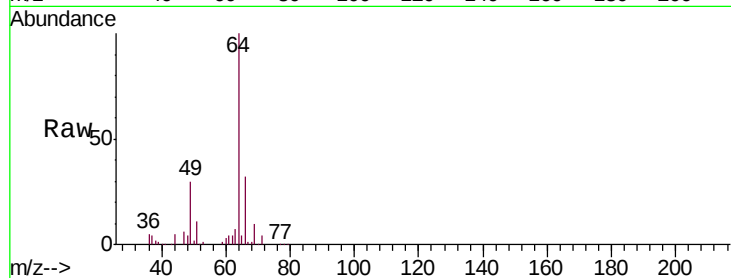
VSTD05037

Tgt Ion: 64 Resp: 53235

Ion Ratio Lower Upper

64 100

66 32.4 22.5 41.7



#9

Trichlorofluoromethane

Concen: 51.585 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU033009.D

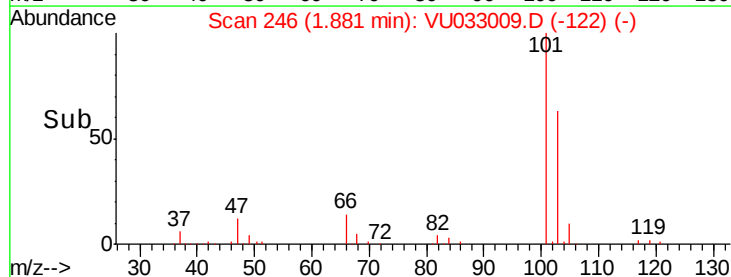
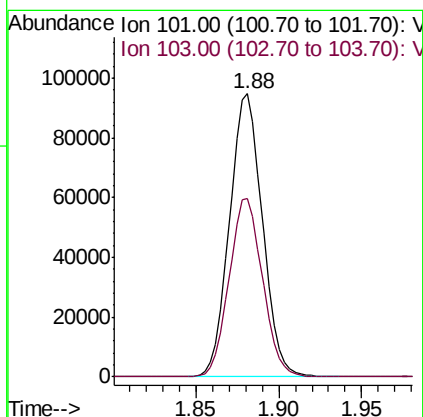
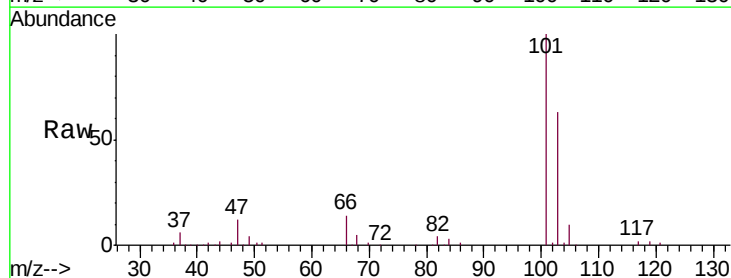
Acq: 24 Jun 2019 16:44

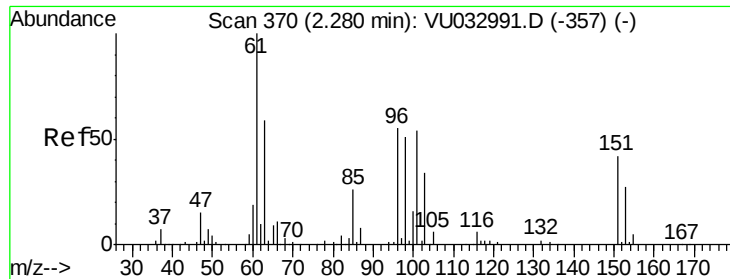
Tgt Ion: 101 Resp: 131023

Ion Ratio Lower Upper

101 100

103 64.0 51.3 76.9





#10

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

Concen: 51.879 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

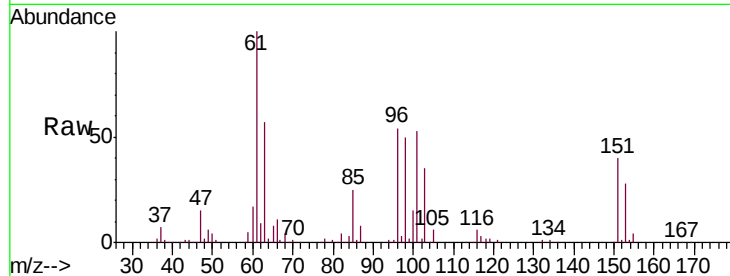
Tgt Ion:101 Resp: 69116

Ion Ratio Lower Upper

101 100

85 46.8 36.8 55.2

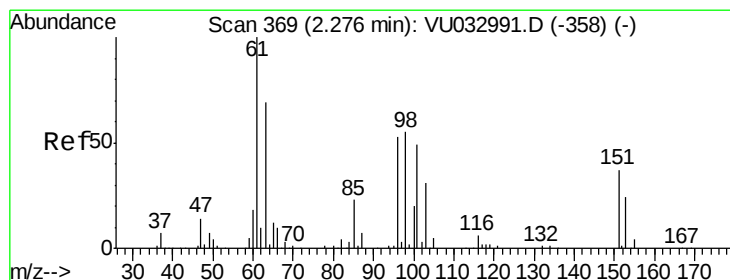
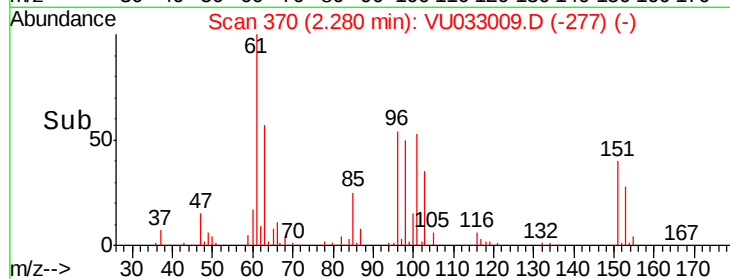
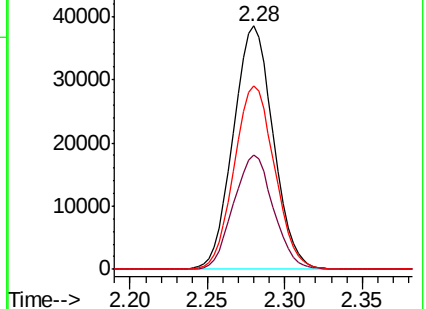
151 76.5 63.6 95.4



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: 49.516 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

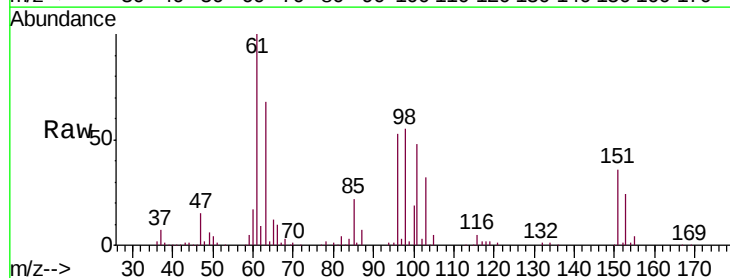
Tgt Ion: 96 Resp: 62167

Ion Ratio Lower Upper

96 100

61 188.7 131.0 243.4

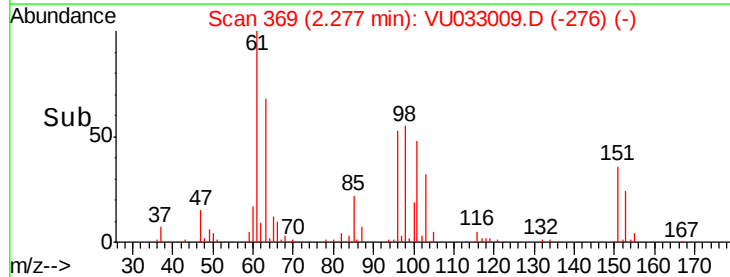
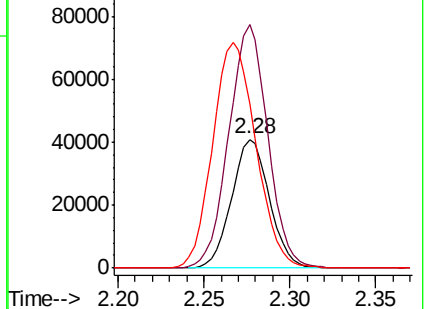
63 127.5 101.0 187.6

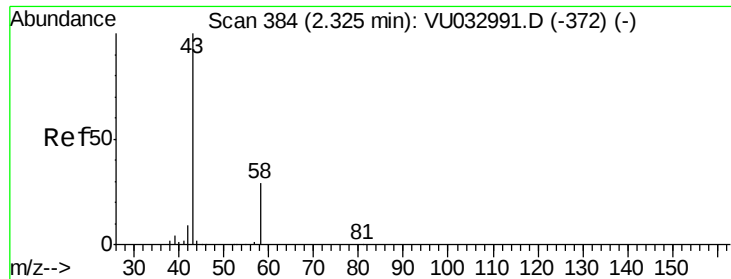


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 84.528 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.01 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

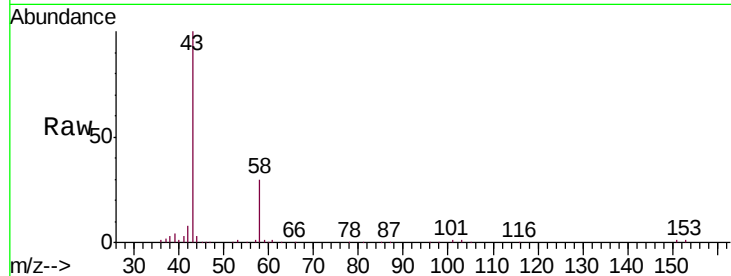
VSTD05037

Tgt Ion: 43 Resp: 132402

Ion Ratio Lower Upper

43 100

58 28.7 0.0 60.6

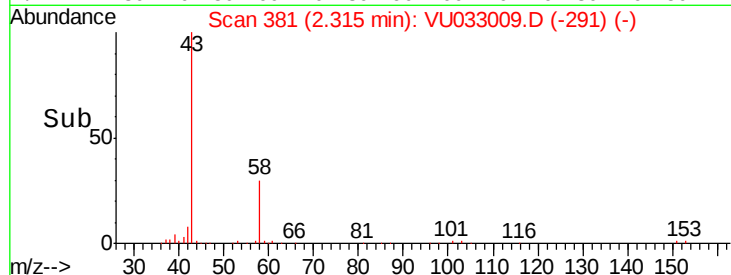


Abundance Ion 43.00 (42.70 to 43.70): VU033009.D (-372) (-)

Ion 58.00 (57.70 to 58.70): VU033009.D (-372) (-)

2.32

Time-->



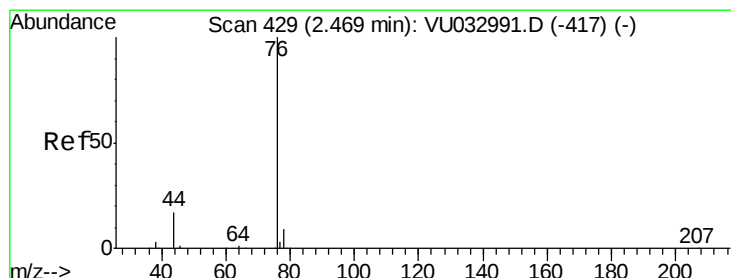
Abundance

Ion 43.00 (42.70 to 43.70): VU033009.D (-291) (-)

Ion 58.00 (57.70 to 58.70): VU033009.D (-291) (-)

2.32

Time-->



#14

Carbon disulfide

Concen: 47.994 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU033009.D

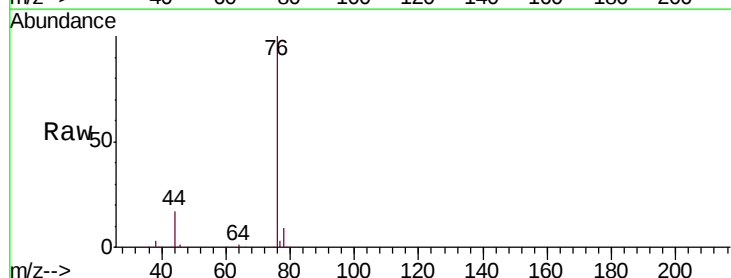
Acq: 24 Jun 2019 16:44

Tgt Ion: 76 Resp: 190665

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9

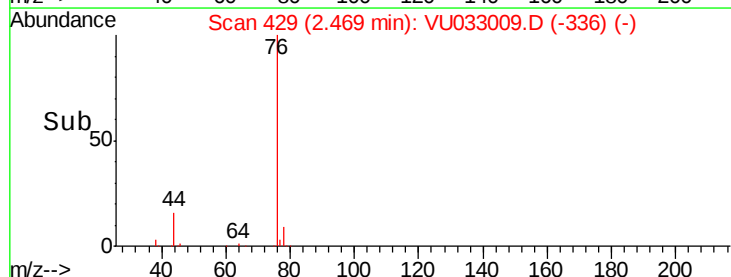


Abundance Ion 76.00 (75.70 to 76.70): VU032991.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU032991.D (-417) (-)

2.47

Time-->



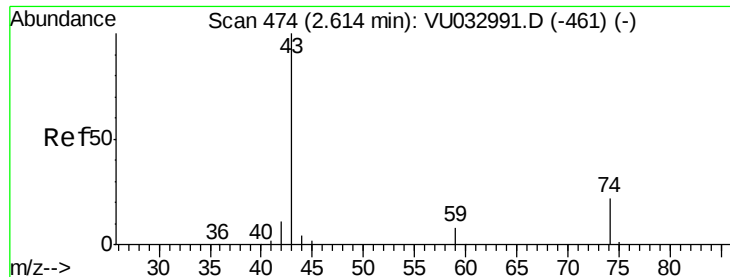
Abundance

Ion 76.00 (75.70 to 76.70): VU033009.D (-336) (-)

Ion 78.00 (77.70 to 78.70): VU033009.D (-336) (-)

2.47

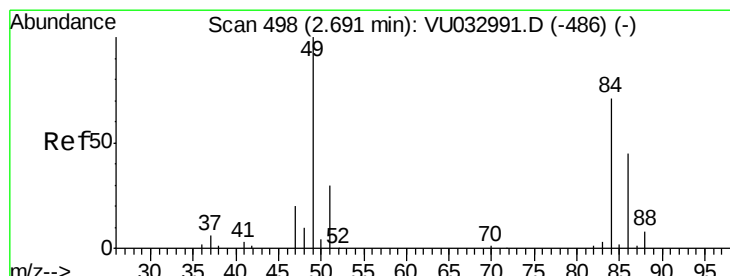
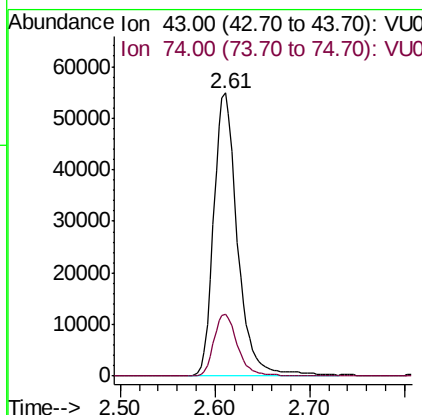
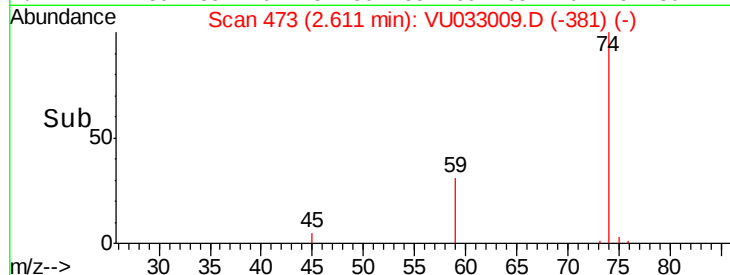
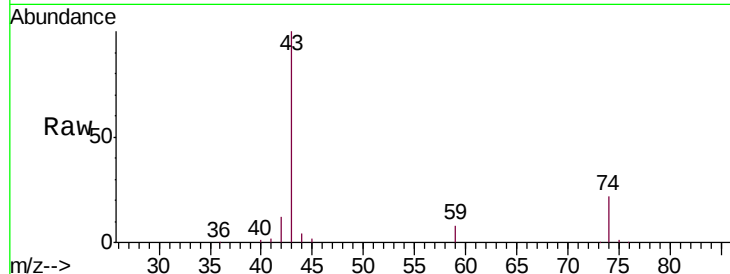
Time-->



#15
Methyl Acetate
Concen: 53.896 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

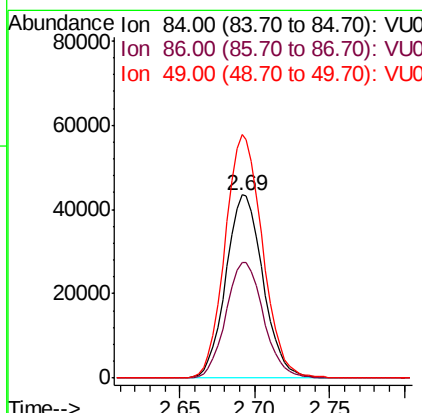
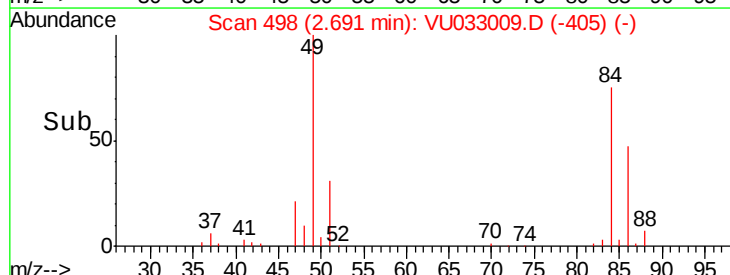
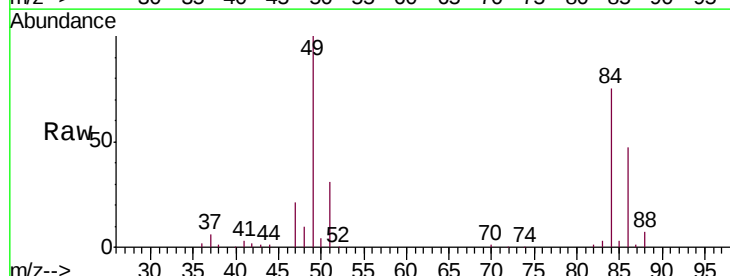
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

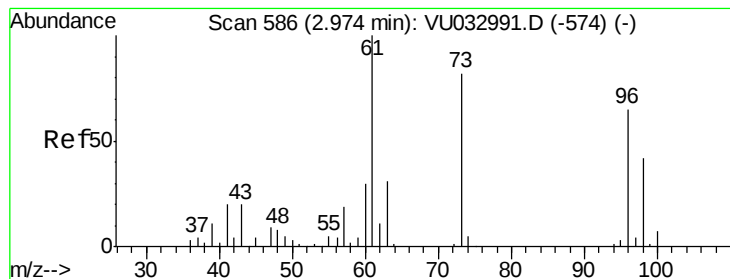
Tgt Ion: 43 Resp: 95695
Ion Ratio Lower Upper
43 100
74 21.8 18.1 27.1



#16
Methylene chloride
Concen: 51.118 ug/L
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

Tgt Ion: 84 Resp: 75307
Ion Ratio Lower Upper
84 100
86 63.1 45.5 84.5
49 132.9 92.1 171.1





#17

trans-1,2-Dichloroethene

Concen: 49.894 ug/L

RT: 2.97 min Scan# 586

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

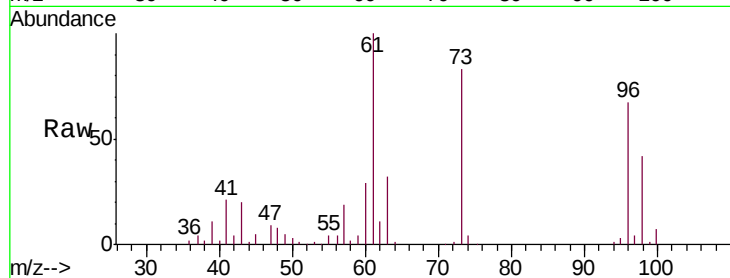
Tgt Ion: 96 Resp: 67929

Ion Ratio Lower Upper

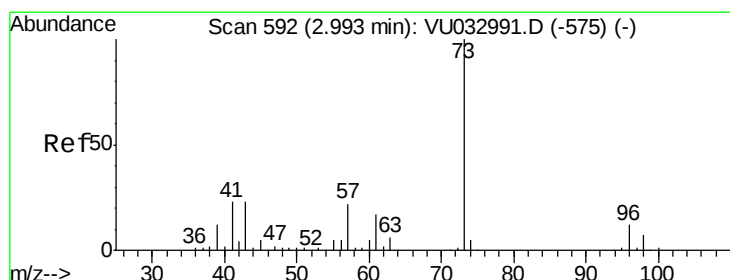
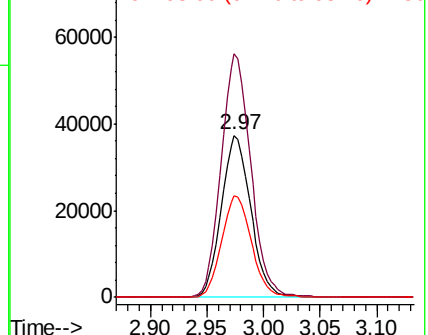
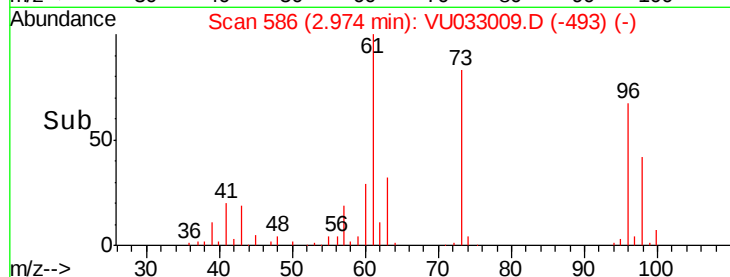
96 100

61 150.3 100.9 187.5

98 62.7 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU033009.D (-493) (-)



#18

Methyl tert-butyl Ether

Concen: 52.837 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

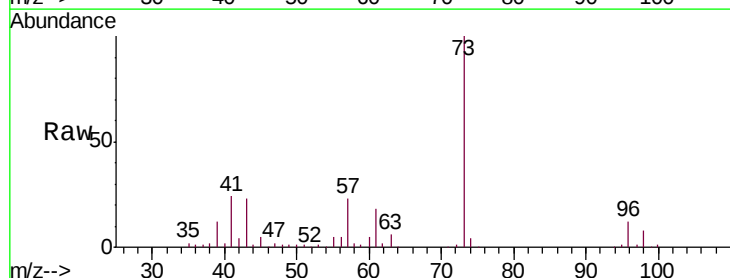
Tgt Ion: 73 Resp: 230960

Ion Ratio Lower Upper

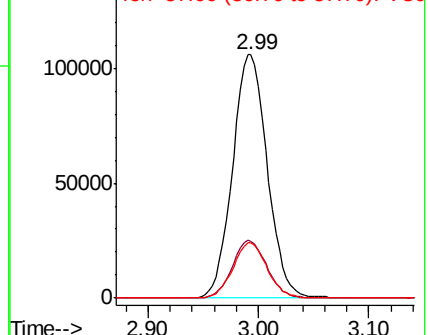
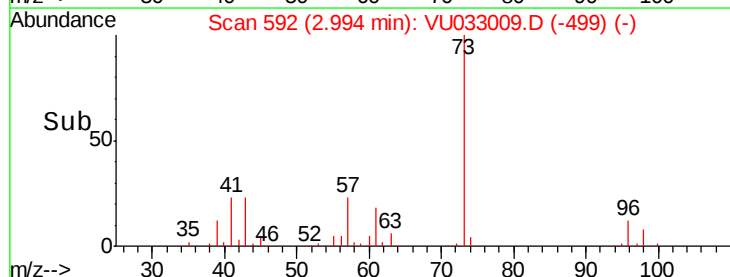
73 100

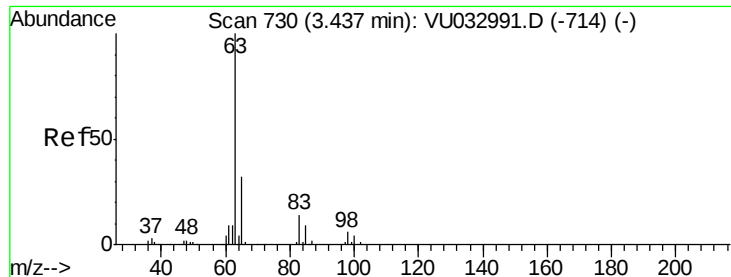
43 23.6 17.8 26.8

57 22.5 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VU033009.D (-499) (-)

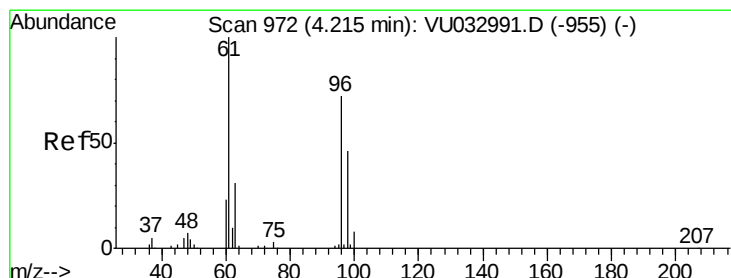
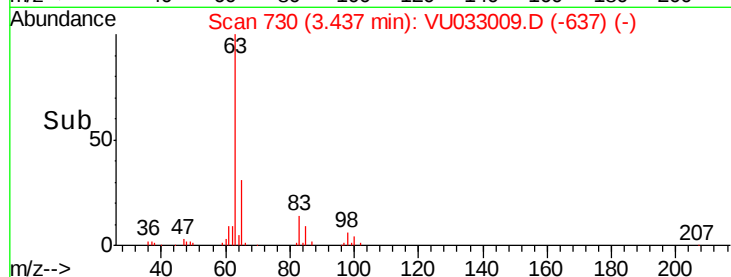
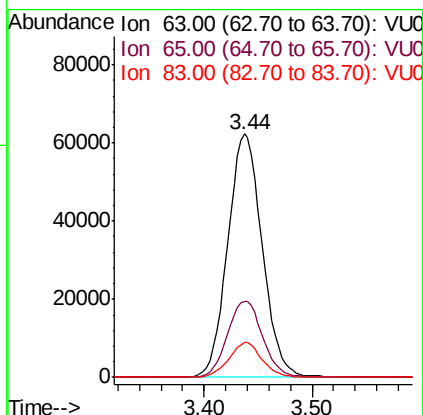
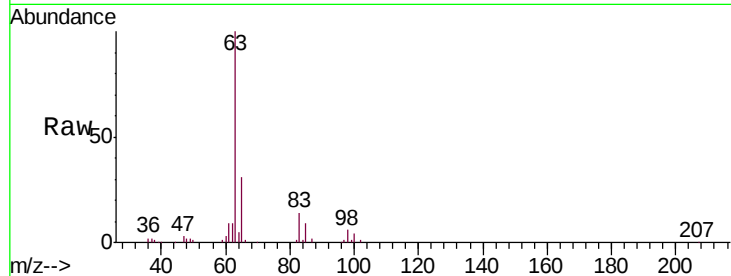




#19
 1,1-Dichloroethane
 Concen: 53.395 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

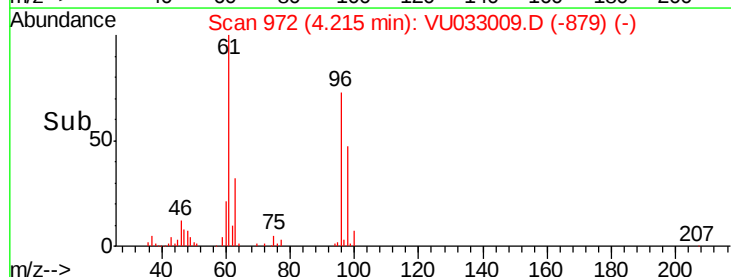
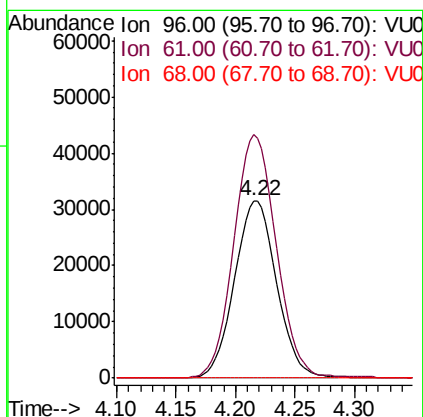
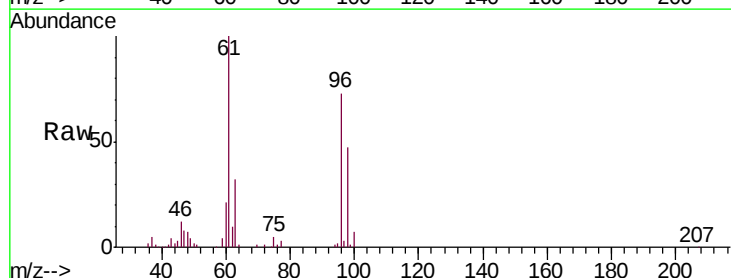
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

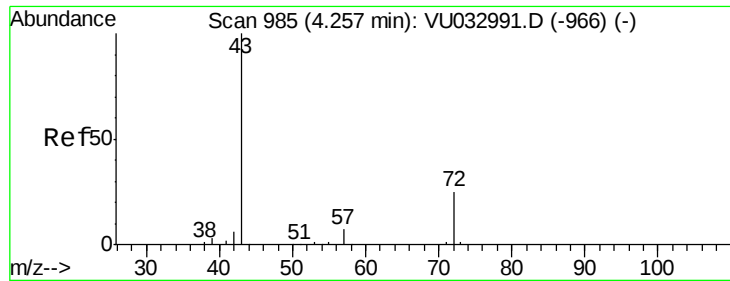
Tgt Ion: 63 Resp: 138590
 Ion Ratio Lower Upper
 63 100
 65 31.3 22.0 41.0
 83 14.2 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 52.206 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

Tgt Ion: 96 Resp: 77431
 Ion Ratio Lower Upper
 96 100
 61 137.3 92.4 171.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 96.885 ug/L

RT: 4.25 min Scan# 983

Delta R.T. -0.01 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

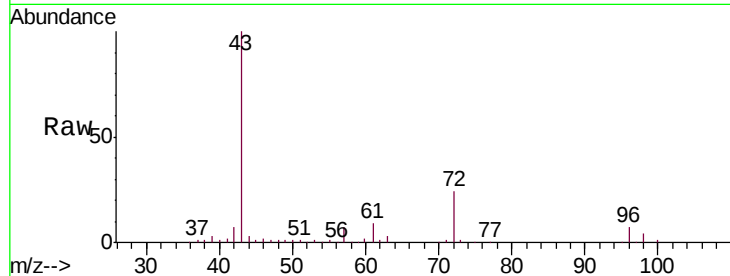
VSTD05037

Tgt Ion: 43 Resp: 157293

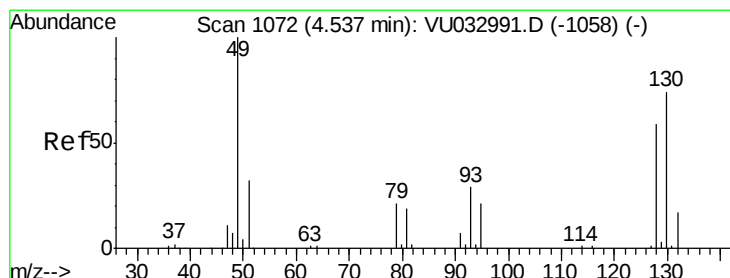
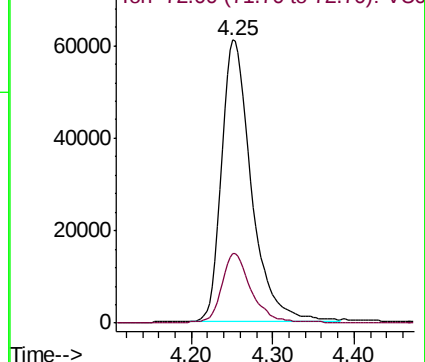
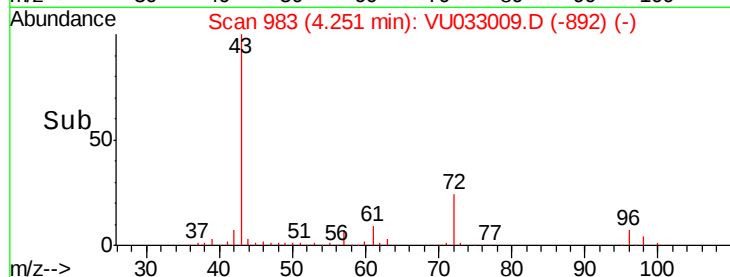
Ion Ratio Lower Upper

43 100

72 24.5 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU033009.D (-892) (-)



#23

Bromochloromethane

Concen: 52.335 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Tgt Ion: 128 Resp: 40493

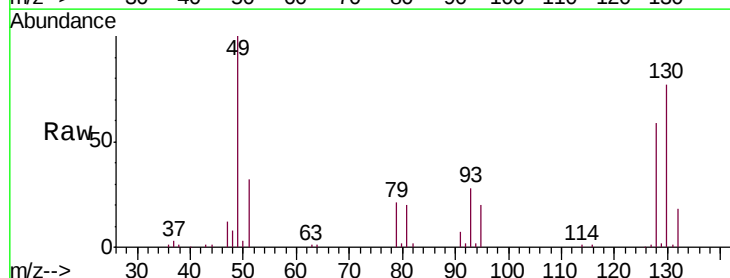
Ion Ratio Lower Upper

128 100

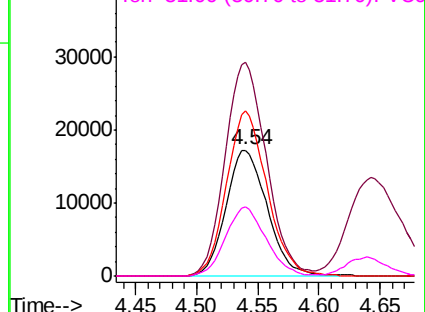
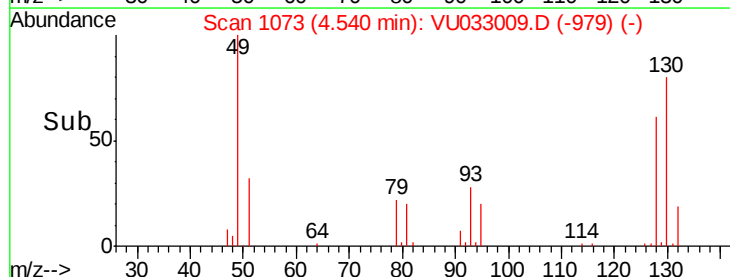
49 169.5 114.7 212.9

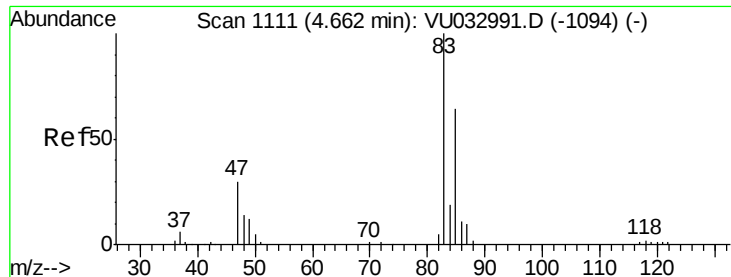
130 131.2 89.4 166.0

51 54.7 42.0 63.0



Abundance Ion 128.00 (127.70 to 128.70): VU033009.D (-979) (-)

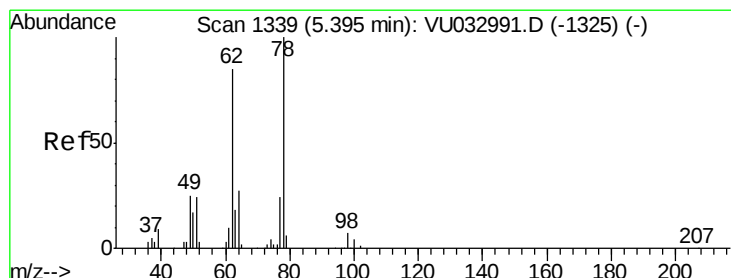
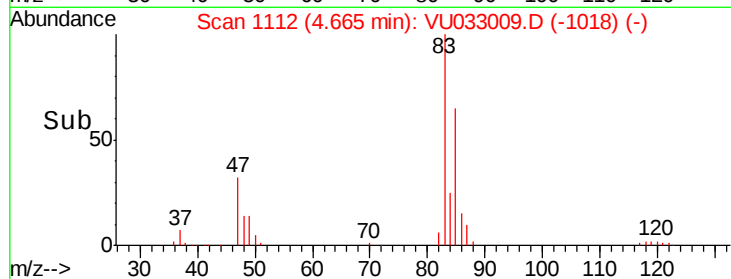
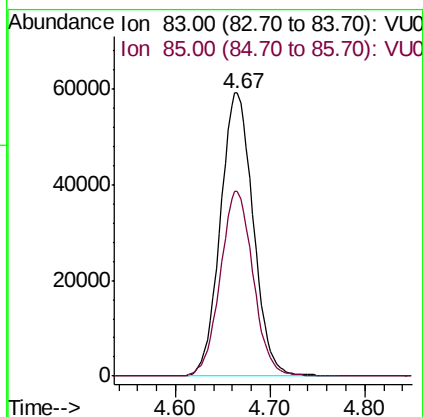
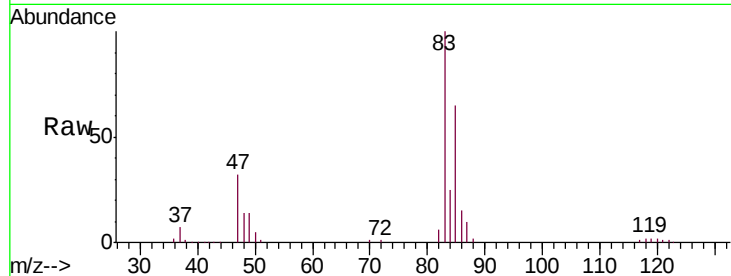




#25
Chloroform
Concen: 53.295 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

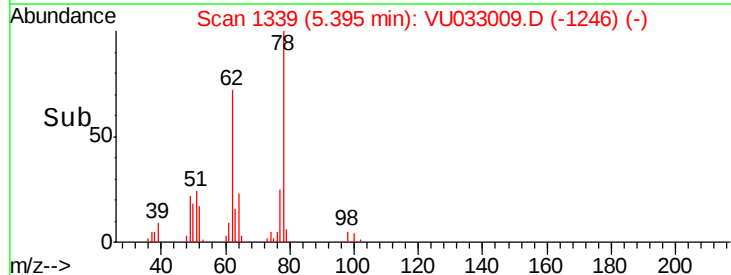
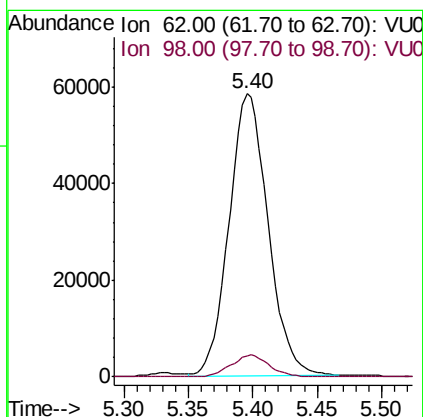
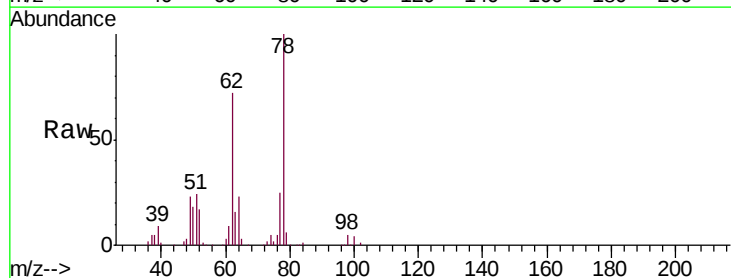
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

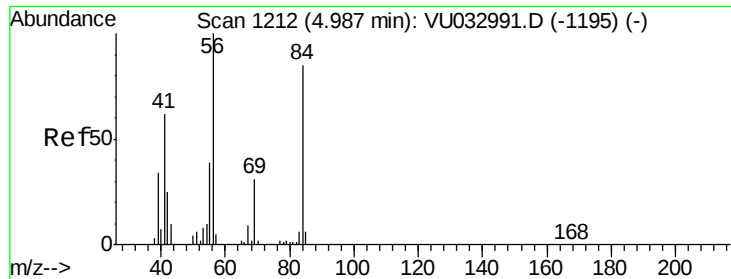
Tgt Ion: 83 Resp: 142653
Ion Ratio Lower Upper
83 100
85 65.3 44.2 82.2



#27
1,2-Dichloroethane
Concen: 55.862 ug/L
RT: 5.40 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

Tgt Ion: 62 Resp: 122836
Ion Ratio Lower Upper
62 100
98 7.6 6.6 10.0

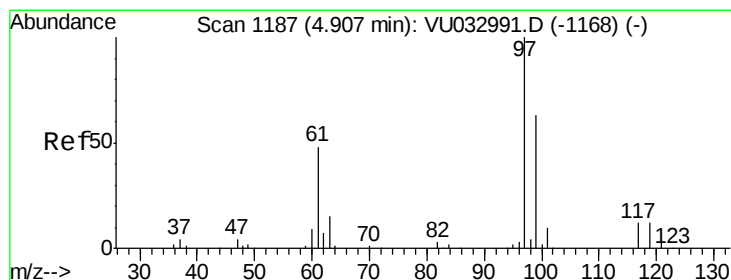
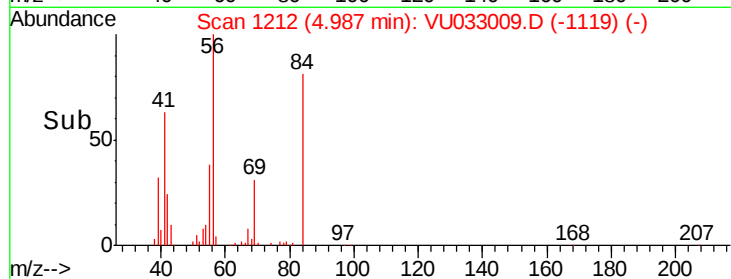
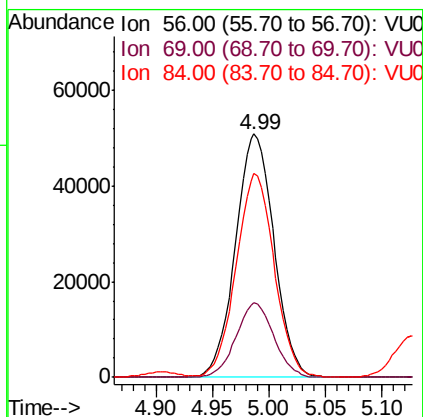
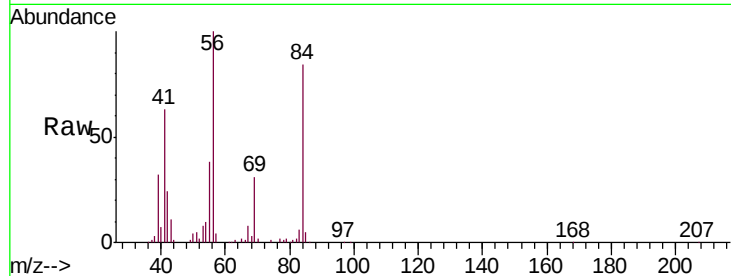




#29
Cyclohexane
Concen: 52.194 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

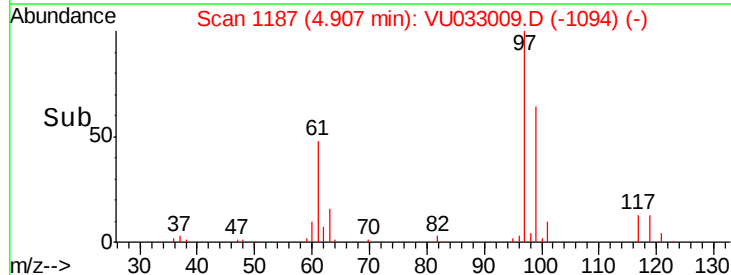
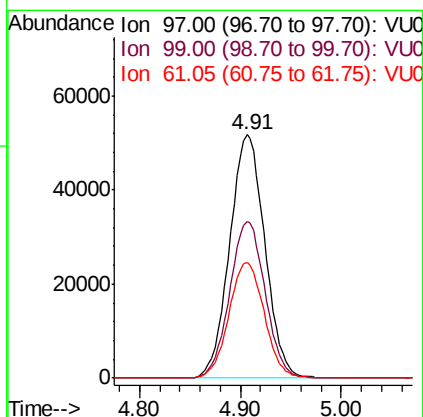
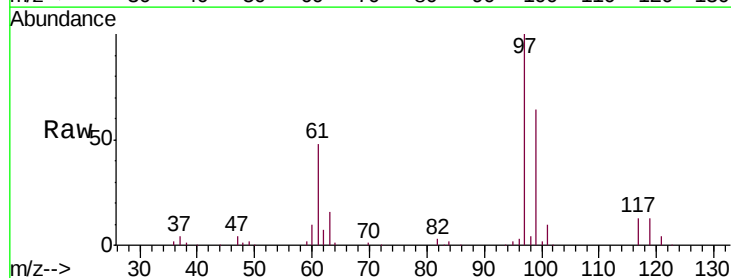
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MSVOA_U
ClientSampleId :
VSTD05037

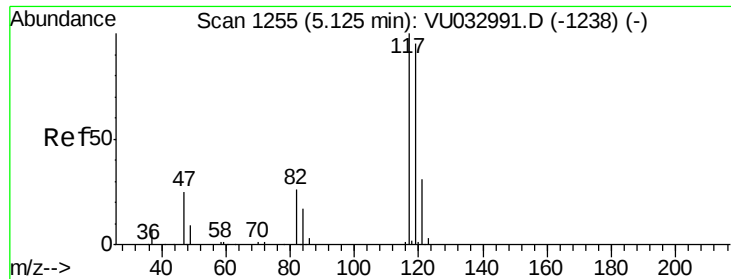
Tgt Ion: 56 Resp: 120464
Ion Ratio Lower Upper
56 100
69 30.1 24.2 36.4
84 83.0 68.0 102.0



#30
1,1,1-Trichloroethane
Concen: 52.104 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

Tgt Ion: 97 Resp: 125474
Ion Ratio Lower Upper
97 100
99 64.8 50.7 76.1
61 47.7 36.7 55.1

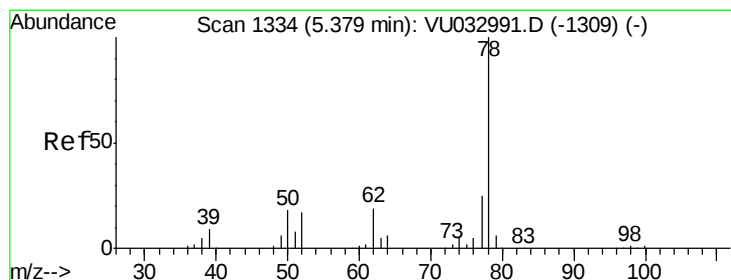
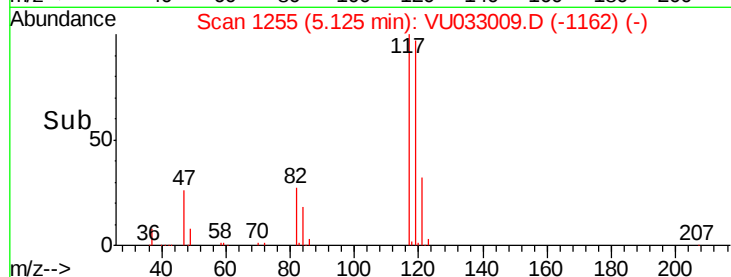
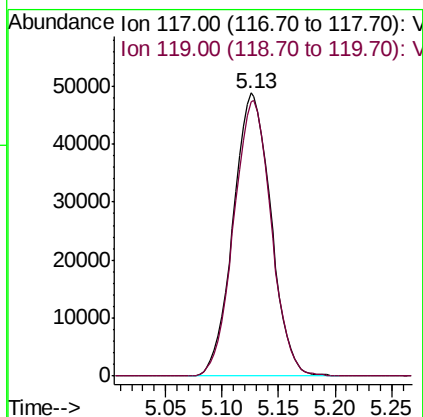
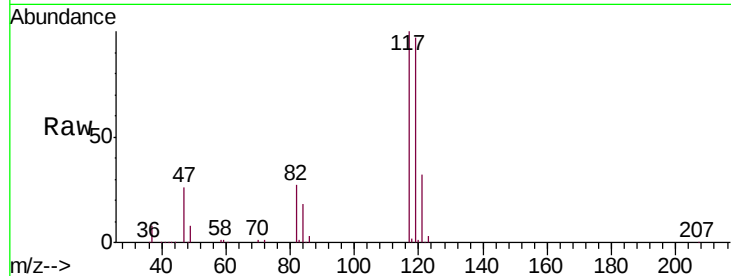




#31
Carbon tetrachloride
Concen: 51.614 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

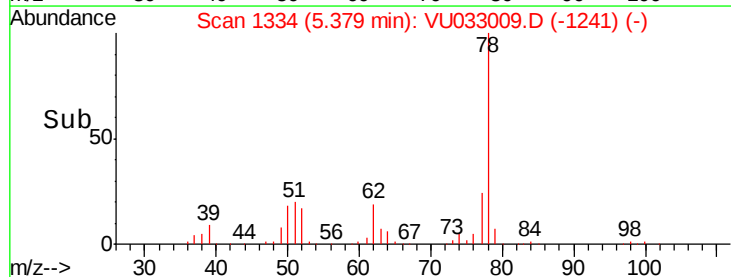
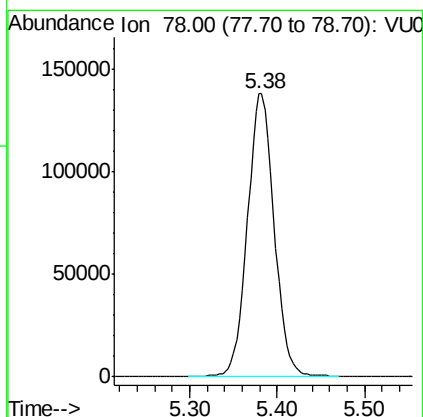
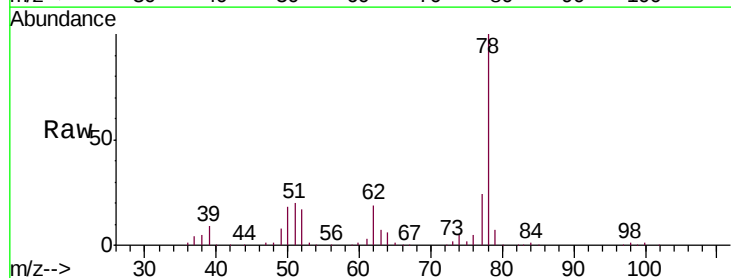
Instrument :
MSVOA_U
ClientSampled :
VSTD05037

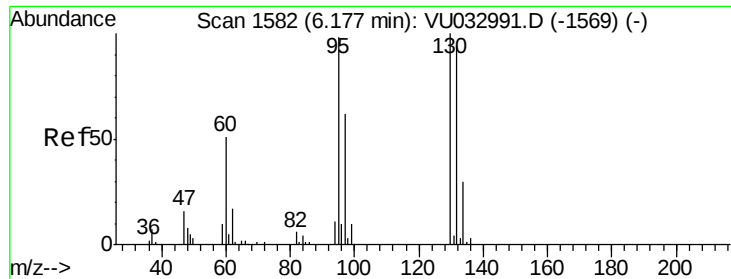
Tgt Ion:117 Resp: 113094
Ion Ratio Lower Upper
117 100
119 96.9 76.3 114.5



#33
Benzene
Concen: 51.637 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

Tgt Ion: 78 Resp: 294032

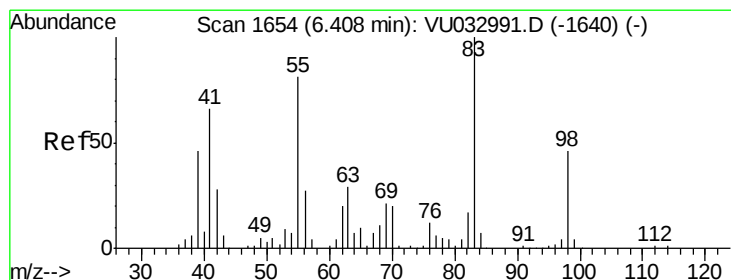
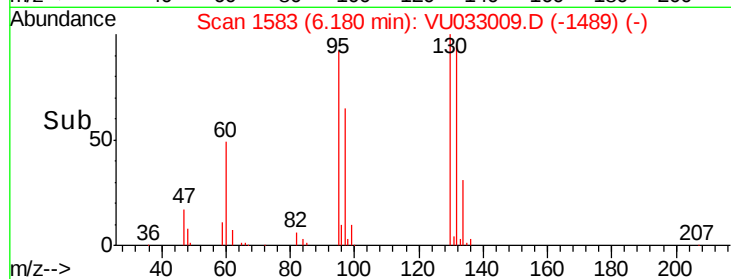
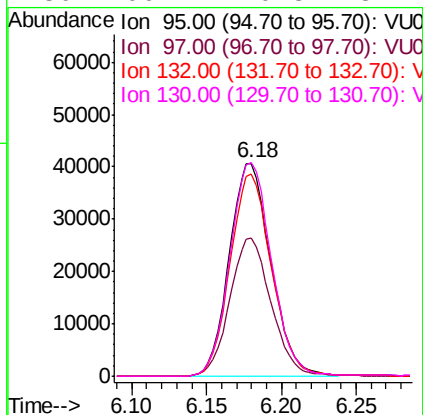
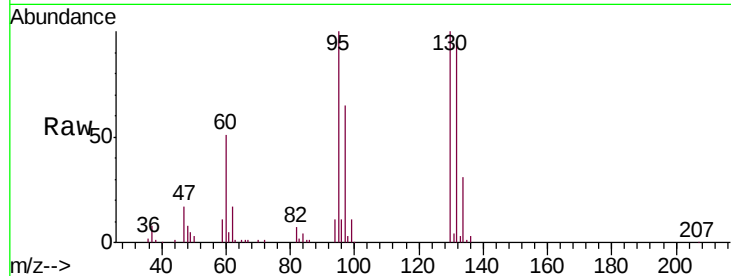




#34
 Trichloroethene
 Concen: 51.751 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

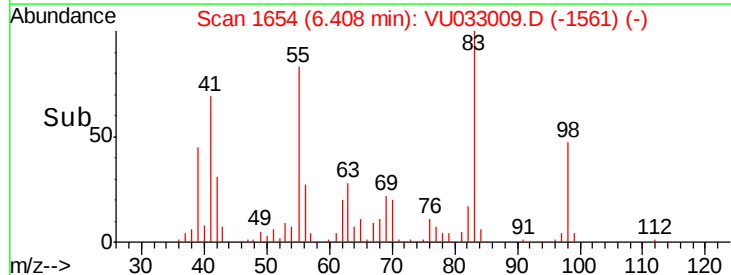
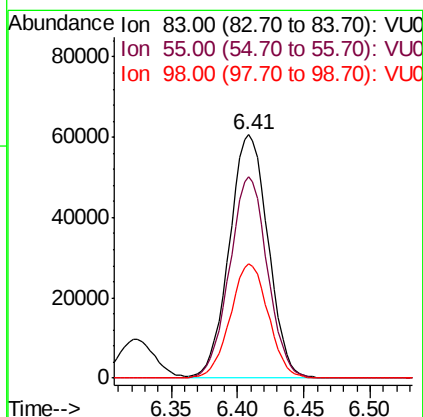
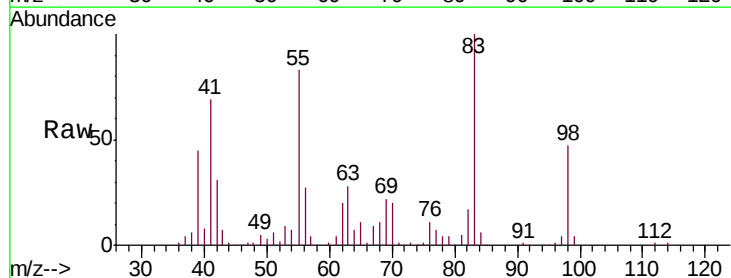
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

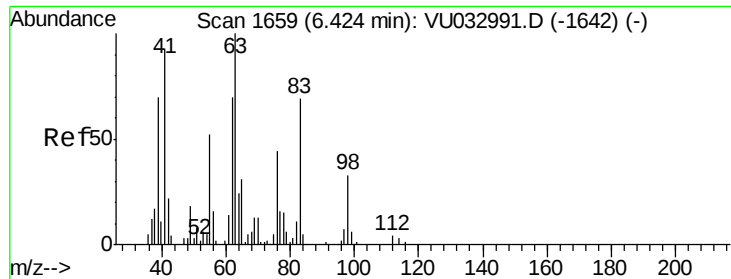
Tgt Ion: 95 Resp: 78734
 Ion Ratio Lower Upper
 95 100
 97 64.9 45.9 85.3
 132 95.0 68.5 127.3
 130 100.4 70.8 131.4



#35
 Methylcyclohexane
 Concen: 52.444 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

Tgt Ion: 83 Resp: 123332
 Ion Ratio Lower Upper
 83 100
 55 80.7 62.6 94.0
 98 46.0 37.4 56.0

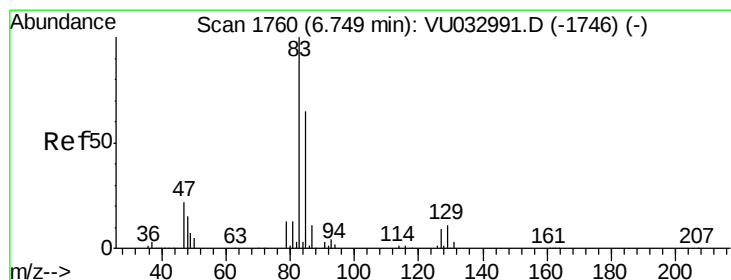
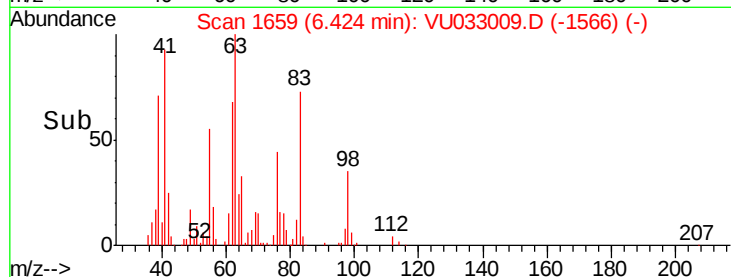
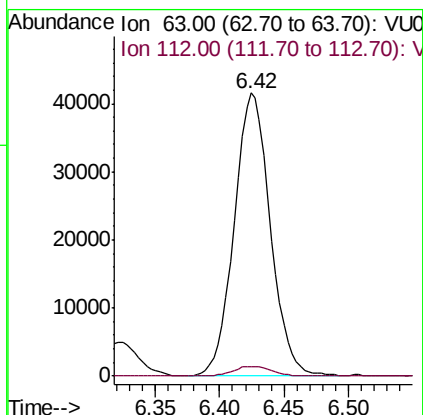
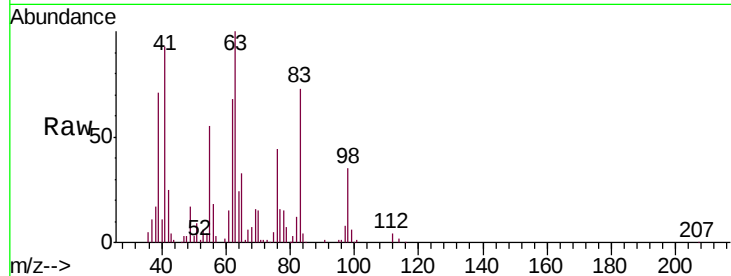




#37
 1,2-Dichloropropane
 Concen: 51.850 ug/L
 RT: 6.42 min Scan# 1659
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

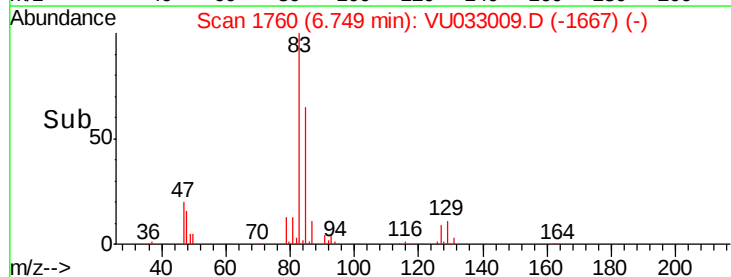
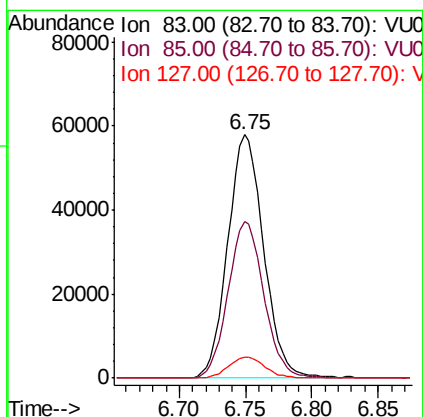
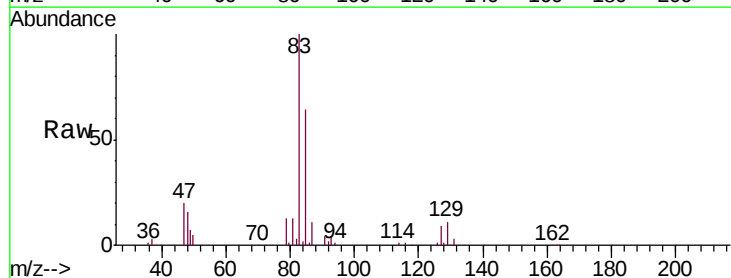
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

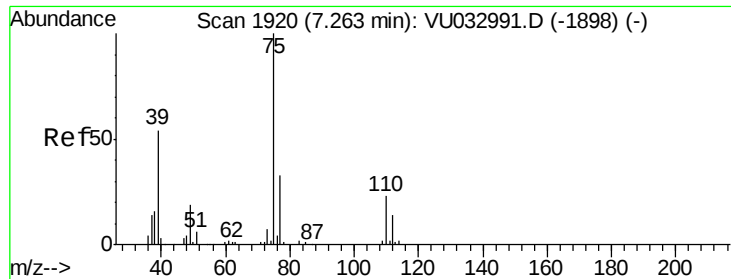
Tgt Ion: 63 Resp: 80987
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.0 4.6



#38
 Bromodichloromethane
 Concen: 51.961 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

Tgt Ion: 83 Resp: 109132
 Ion Ratio Lower Upper
 83 100
 85 64.2 45.0 83.6
 127 8.6 7.0 10.6

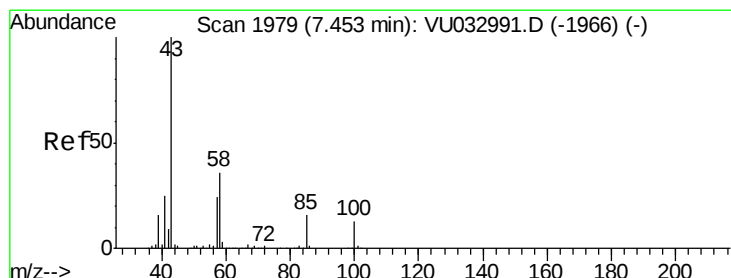
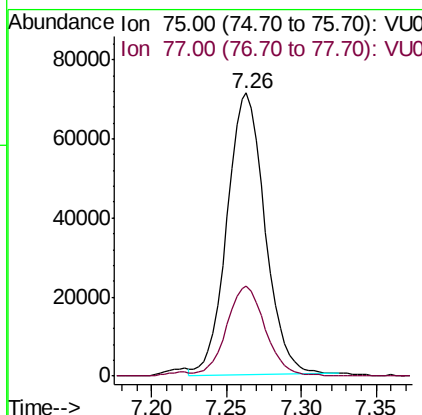
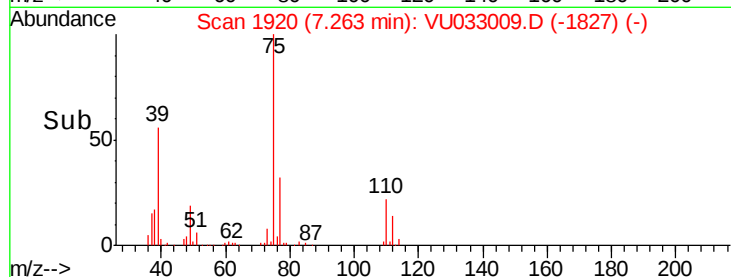
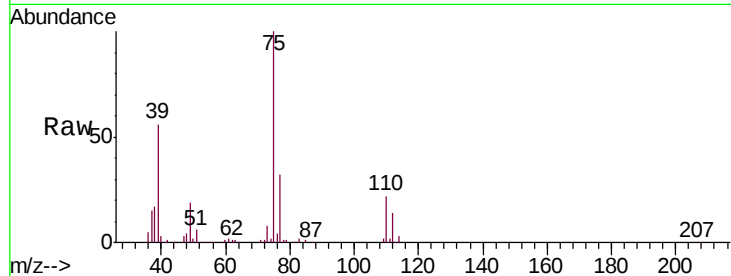




#39
 cis-1,3-Dichloropropene
 Concen: 51.778 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

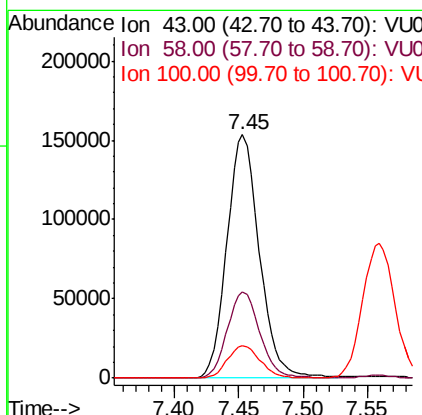
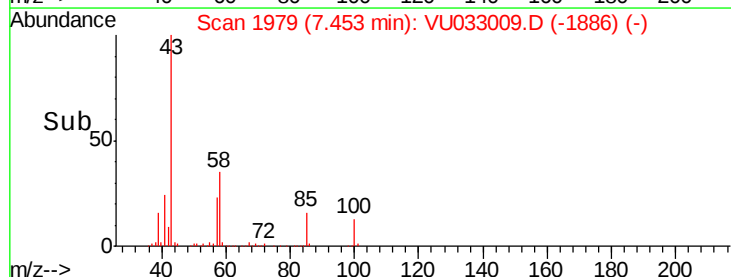
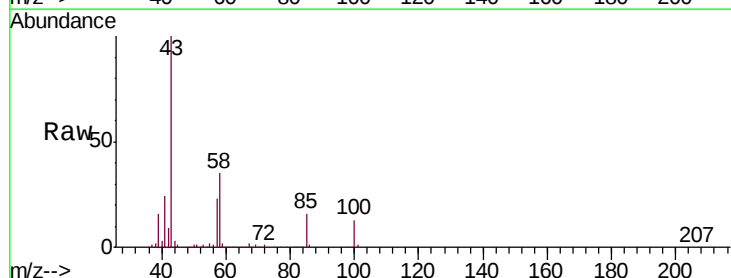
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

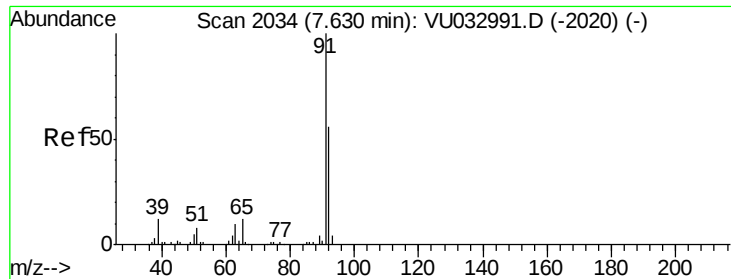
Tgt Ion: 75 Resp: 126000
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 108.085 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

Tgt Ion: 43 Resp: 269531
 Ion Ratio Lower Upper
 43 100
 58 35.5 29.4 44.2
 100 13.5 11.2 16.8





#42

Toluene

Concen: 52.368 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

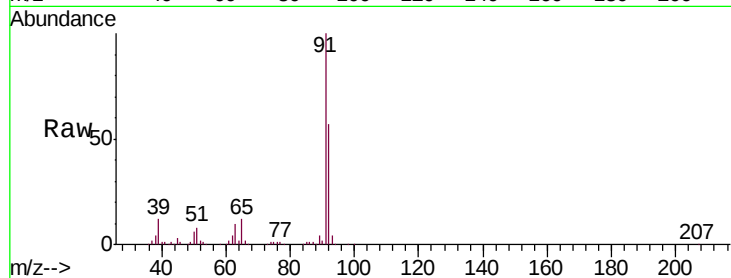
VSTD05037

Tgt Ion: 91 Resp: 322630

Ion Ratio Lower Upper

91 100

92 56.9 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VU033009.D (-1941) (-)

Ion 92.00 (91.70 to 92.70): VU033009.D (-1941) (-)

7.63

200000

150000

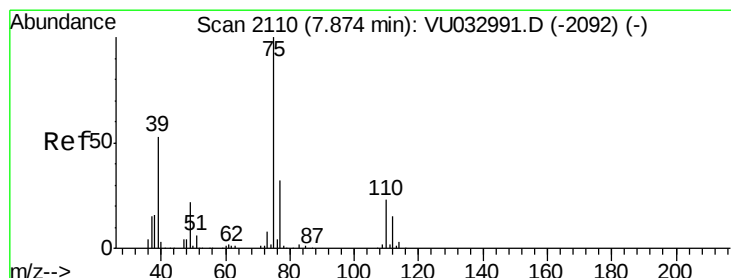
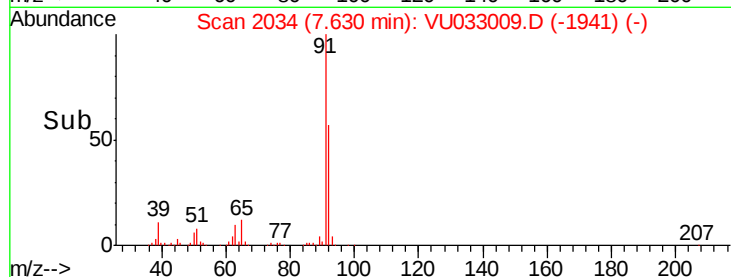
100000

50000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 52.649 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU033009.D

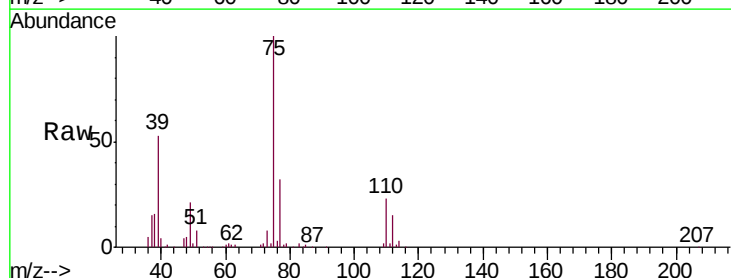
Acq: 24 Jun 2019 16:44

Tgt Ion: 75 Resp: 120336

Ion Ratio Lower Upper

75 100

77 32.3 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU033009.D (-2017) (-)

Ion 77.00 (76.70 to 77.70): VU033009.D (-2017) (-)

7.87

80000

60000

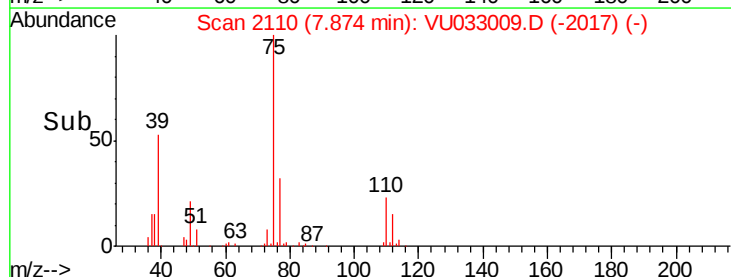
40000

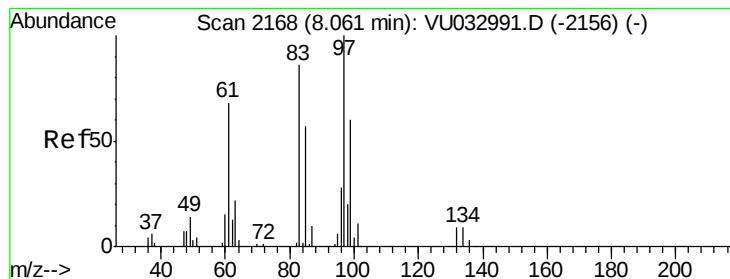
20000

0

7.80 7.90 8.00

Time-->





#45

1,1,2-Trichloroethane

Concen: 52.091 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

Tgt Ion: 97 Resp: 75730

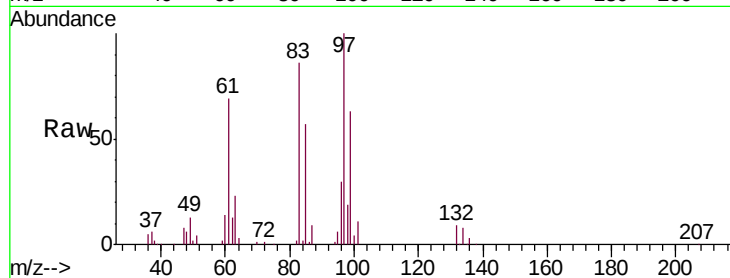
Ion Ratio Lower Upper

97 100

99 63.2 43.1 80.1

83 86.4 61.4 114.0

85 57.2 39.2 72.8

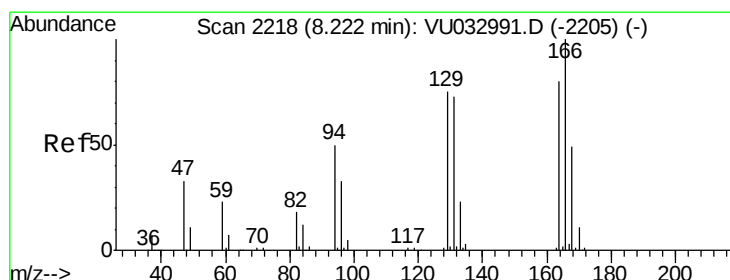
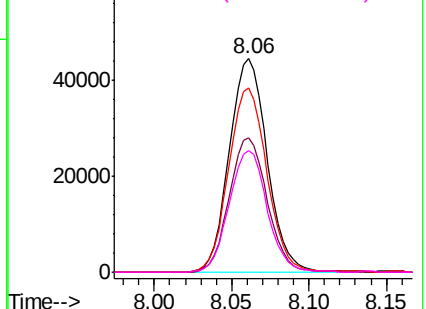
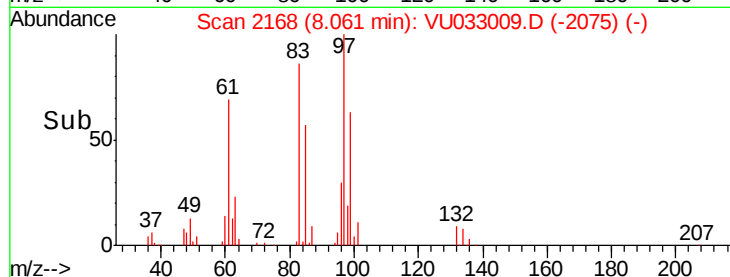


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 52.440 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Tgt Ion: 164 Resp: 65375

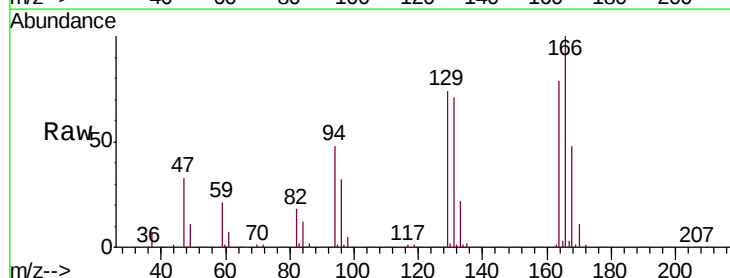
Ion Ratio Lower Upper

164 100

129 94.0 64.8 120.3

131 89.5 64.5 119.7

166 126.8 91.3 169.6

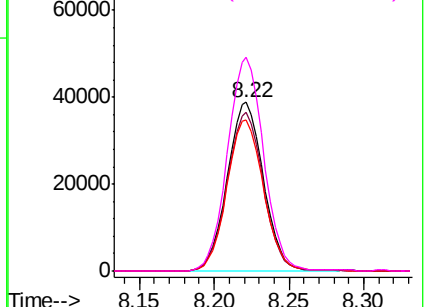
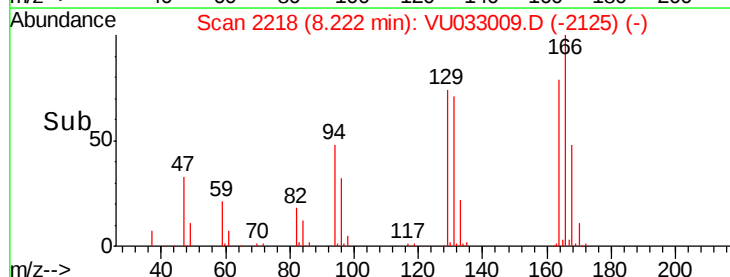


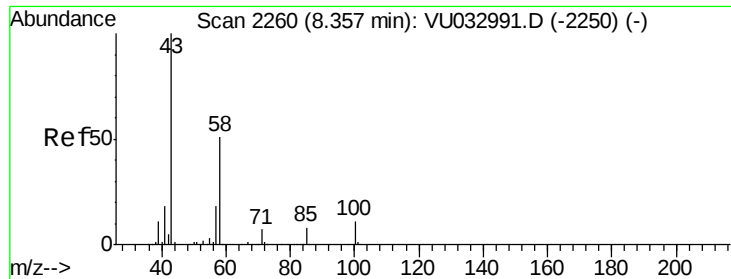
Abundance Ion 164.00 (163.70 to 164.70): V

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

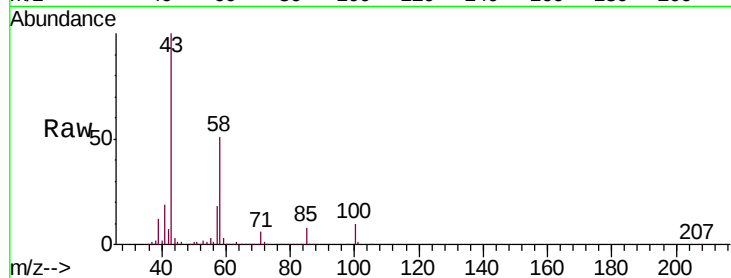




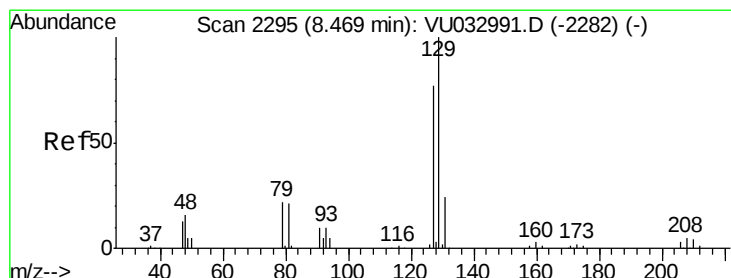
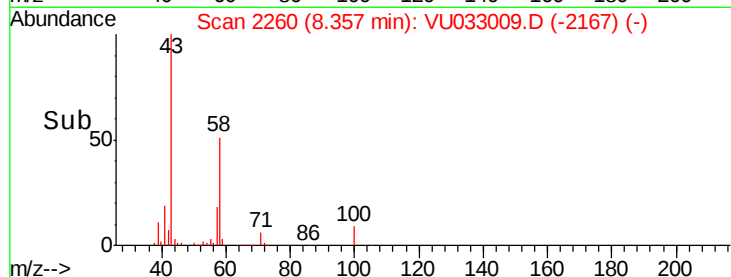
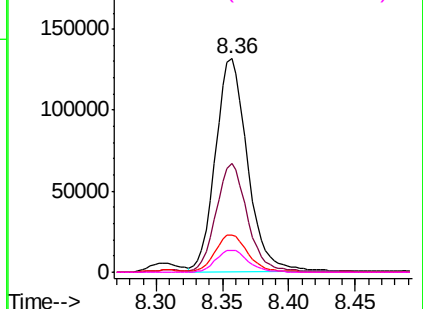
#48
2-Hexanone
Concen: 99.925 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

Tgt Ion:	43	Resp:	219855
Ion	Ratio	Lower	Upper
43	100		
58	50.4	40.2	60.2
57	17.4	14.2	21.4
100	10.4	8.4	12.6

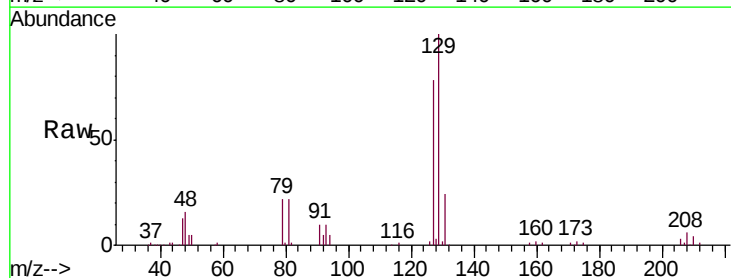


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

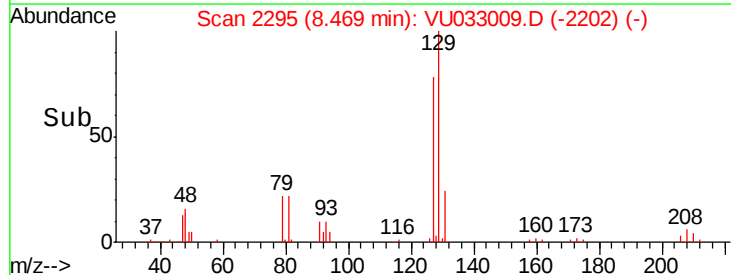
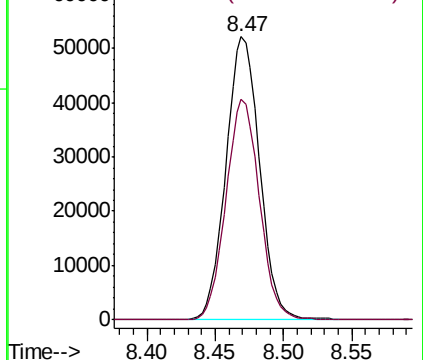


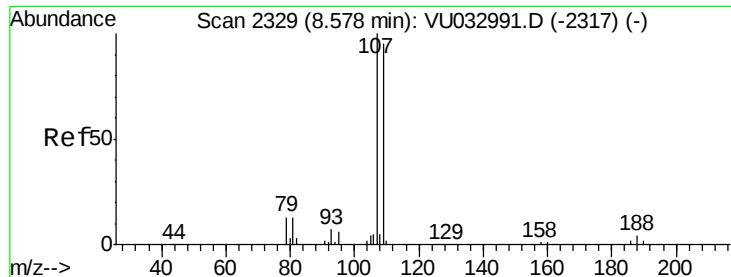
#49
Dibromochloromethane
Concen: 51.083 ug/L
RT: 8.47 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

Tgt Ion:	129	Resp:	89528
Ion	Ratio	Lower	Upper
129	100		
127	77.9	52.3	97.1



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

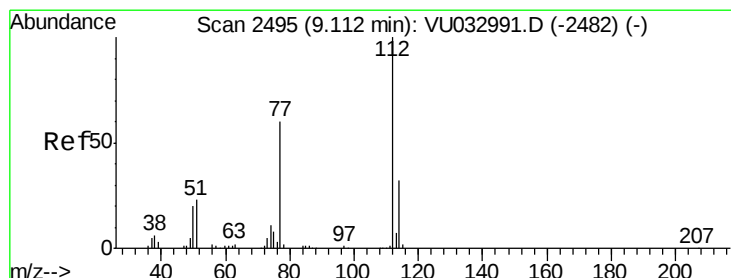
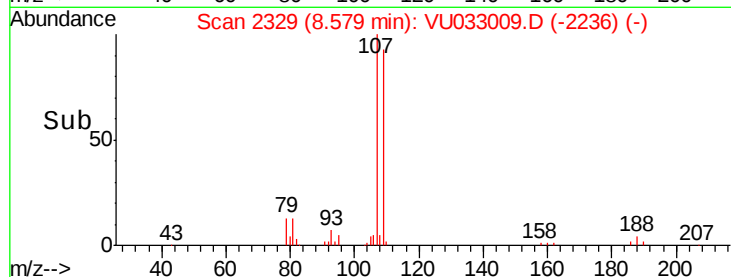
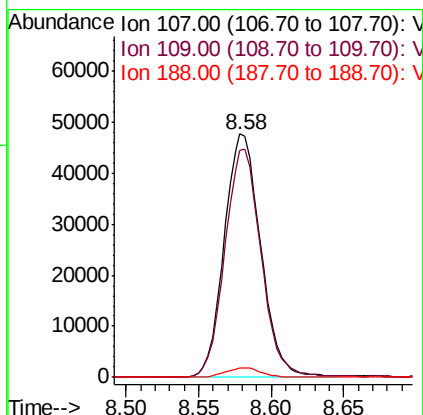
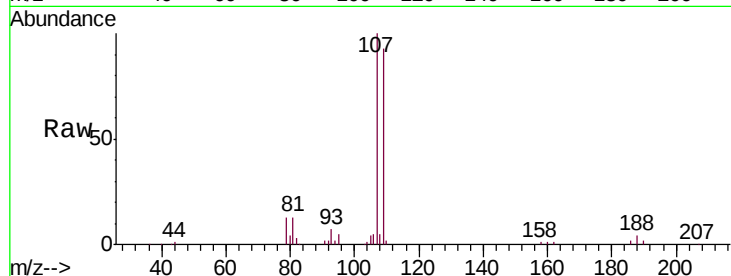




#50
1,2-Dibromoethane
Concen: 51.606 ug/L
RT: 8.58 min Scan# 2329
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

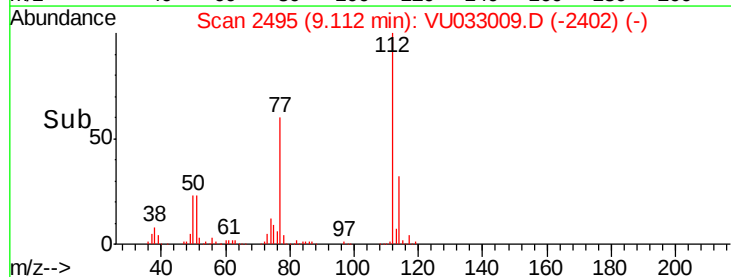
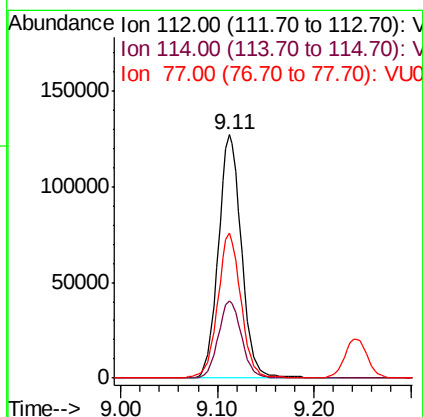
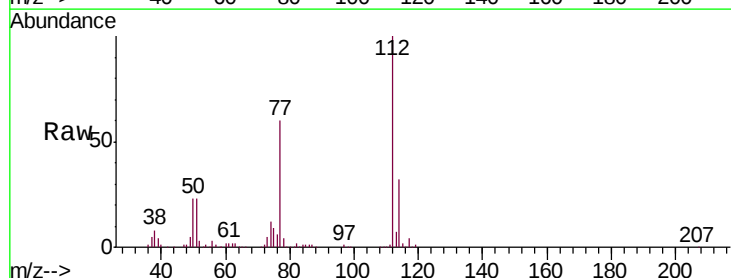
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

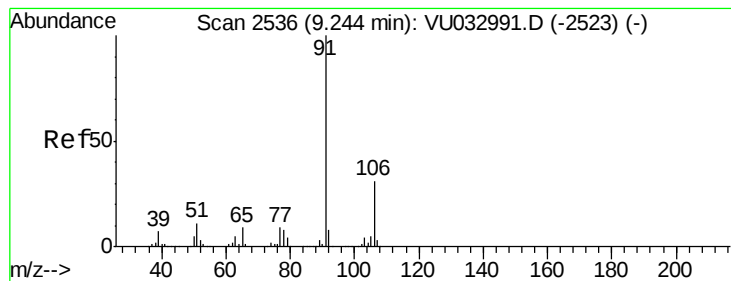
Tgt Ion:107 Resp: 83319
Ion Ratio Lower Upper
107 100
109 93.2 65.4 121.4
188 3.8 3.1 4.7



#51
Chlorobenzene
Concen: 51.840 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. 0.00 min
Lab File: VU033009.D
Acq: 24 Jun 2019 16:44

Tgt Ion:112 Resp: 210165
Ion Ratio Lower Upper
112 100
114 31.9 22.8 42.4
77 59.6 46.3 69.5





#52

Ethylbenzene

Concen: 53.264 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

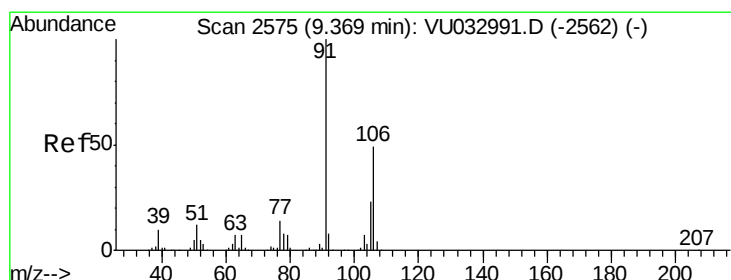
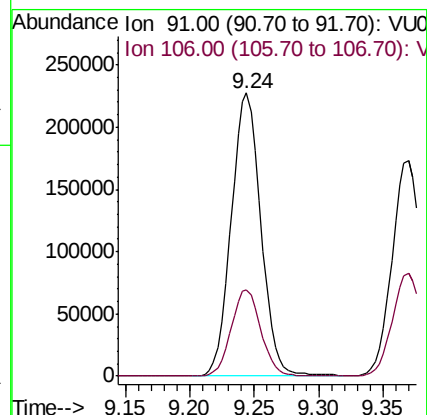
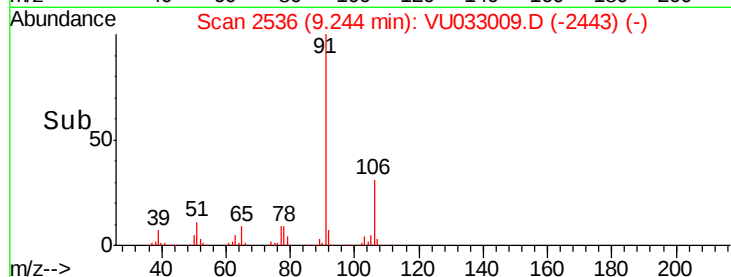
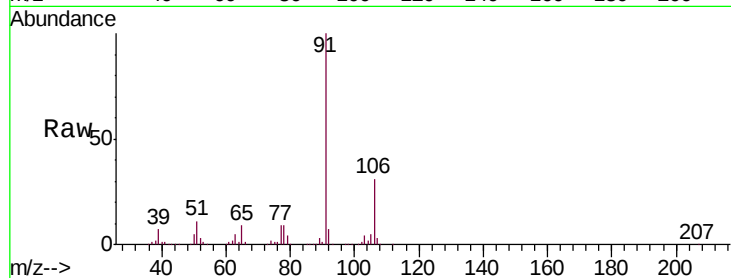
VSTD05037

Tgt Ion: 91 Resp: 363227

Ion Ratio Lower Upper

91 100

106 30.6 21.8 40.4



#53

m,p-Xylene

Concen: 52.357 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU033009.D

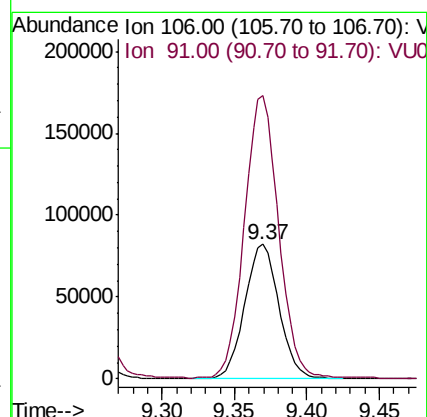
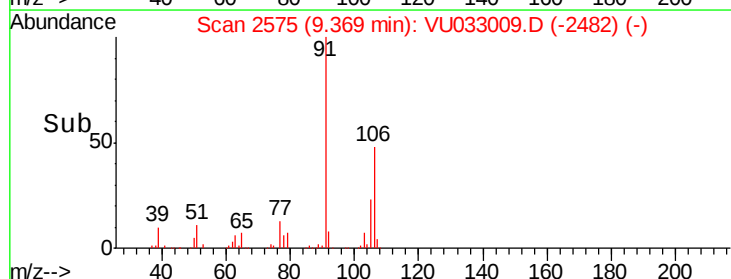
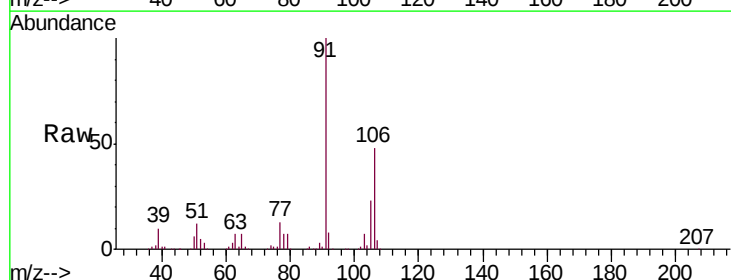
Acq: 24 Jun 2019 16:44

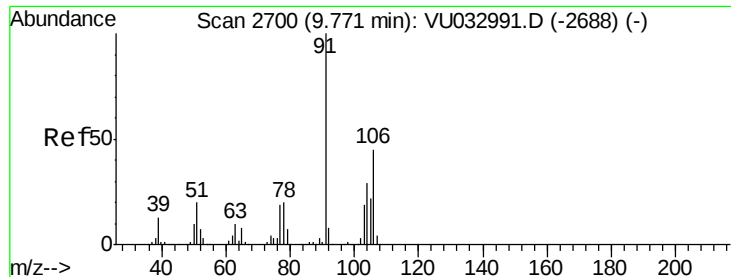
Tgt Ion: 106 Resp: 134711

Ion Ratio Lower Upper

106 100

91 209.9 142.9 265.5





#54

o-xylene

Concen: 52.727 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

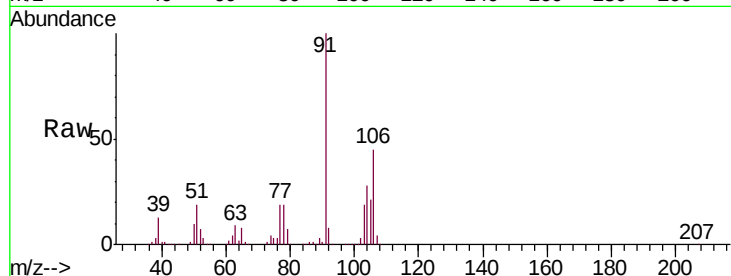
VSTD05037

Tgt Ion:106 Resp: 132484

Ion Ratio Lower Upper

106 100

91 222.2 152.9 284.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

200000

150000

100000

50000

0

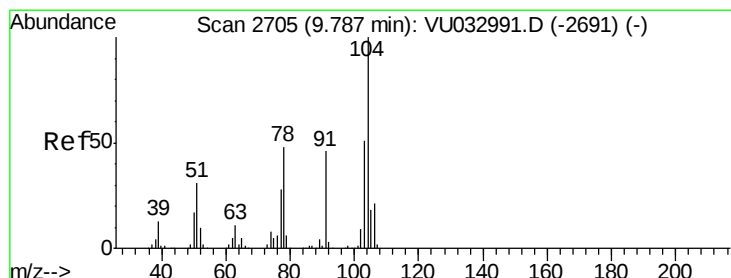
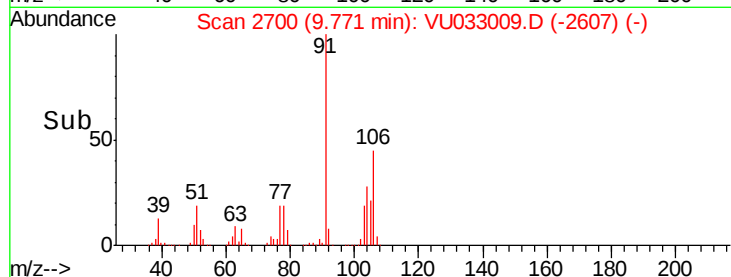
9.77

9.75

9.80

9.85

Time-->



#55

Styrene

Concen: 52.595 ug/L

RT: 9.78 min Scan# 2704

Delta R.T. -0.00 min

Lab File: VU033009.D

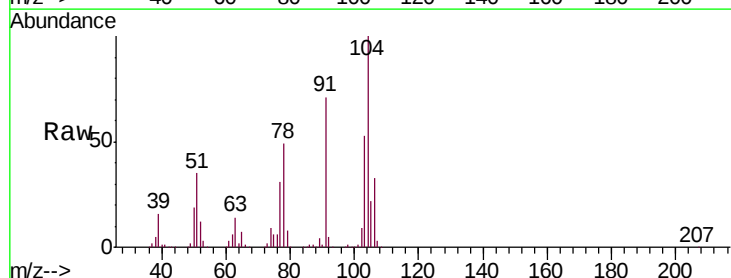
Acq: 24 Jun 2019 16:44

Tgt Ion:104 Resp: 229257

Ion Ratio Lower Upper

104 100

78 49.4 32.1 59.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

150000

100000

50000

0

9.78

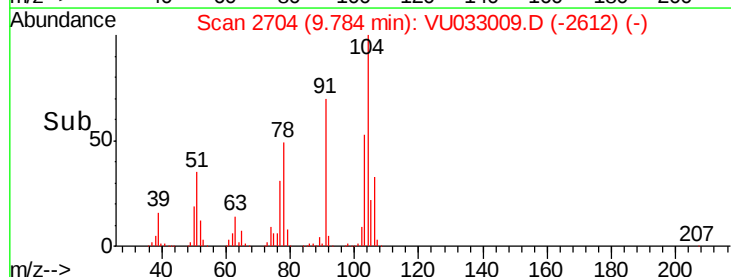
9.75

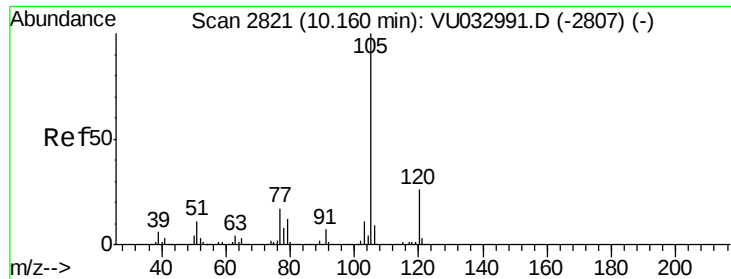
9.80

9.85

9.90

Time-->





#56

Isopropylbenzene

Concen: 53.123 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

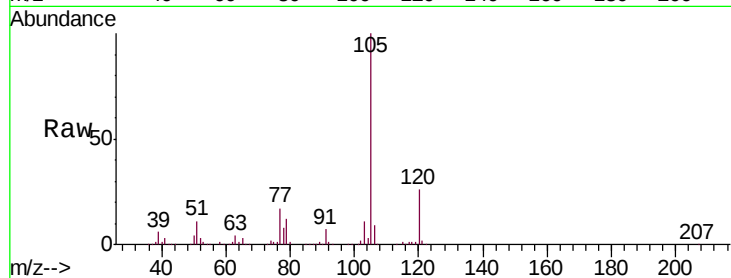
Tgt Ion: 105 Resp: 359721

Ion Ratio Lower Upper

105 100

120 26.1 21.4 32.0

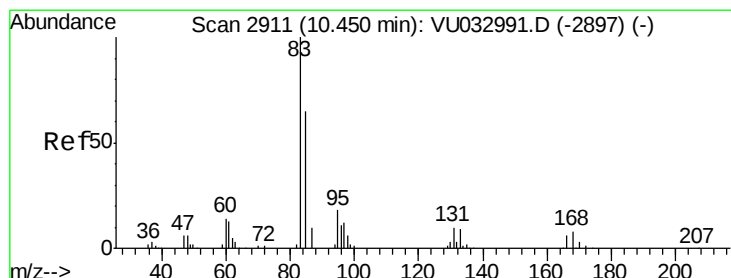
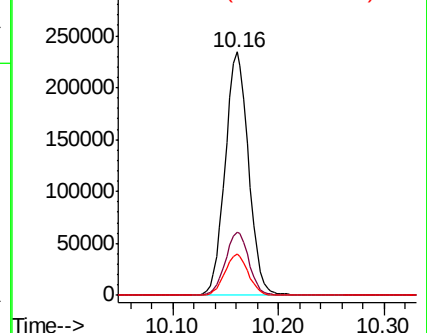
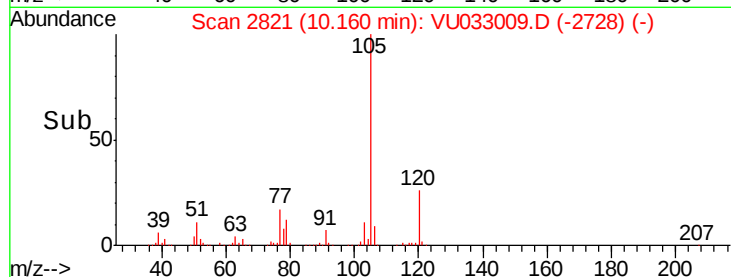
77 16.9 13.0 19.4



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: 51.825 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

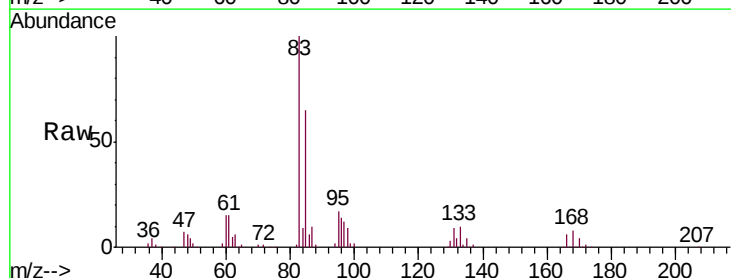
Tgt Ion: 83 Resp: 136334

Ion Ratio Lower Upper

83 100

85 64.6 45.8 85.2

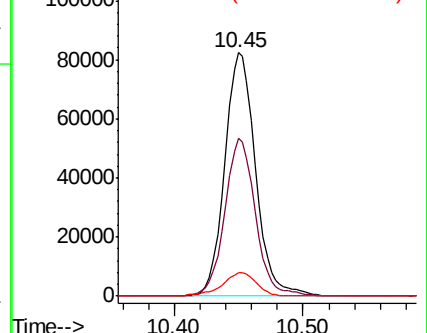
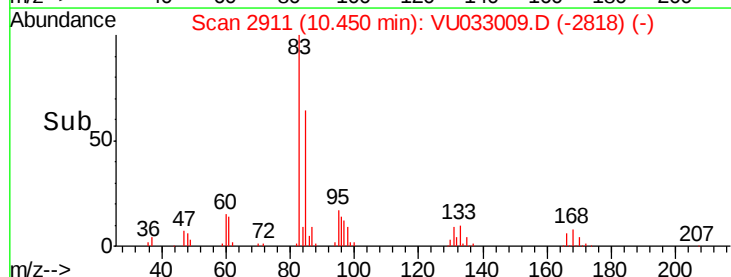
131 9.4 7.8 11.8

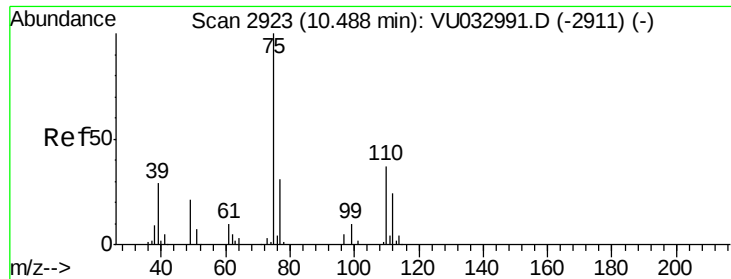


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 52.485 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

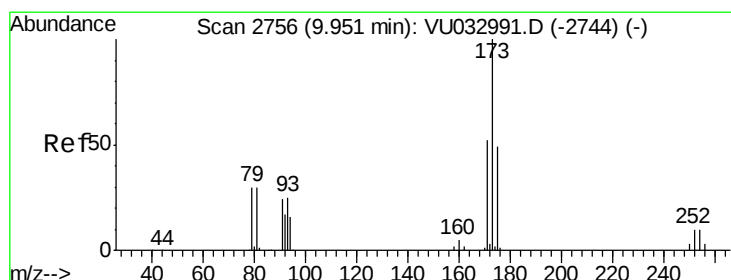
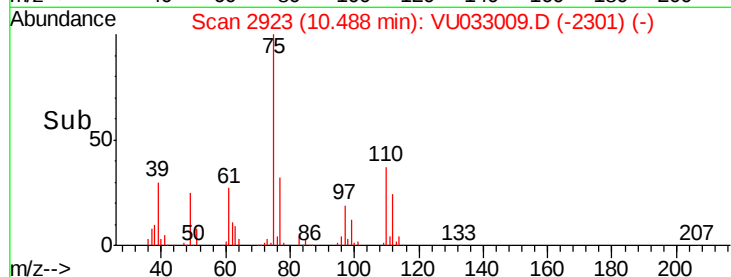
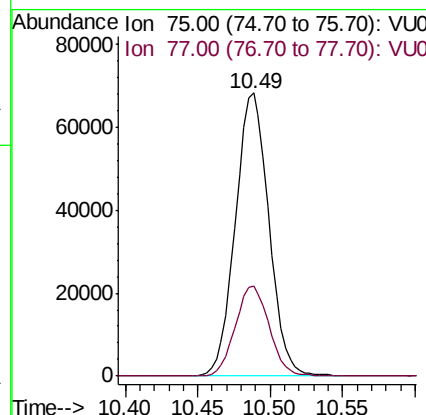
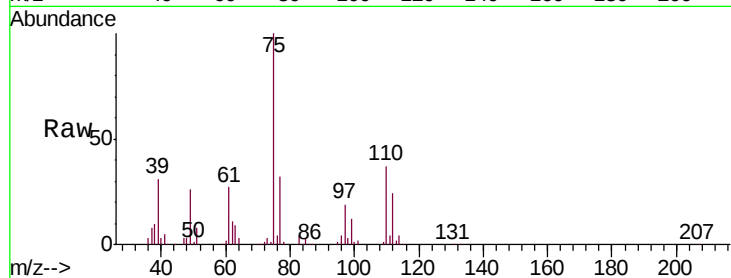
VSTD05037

Tgt Ion: 75 Resp: 109404

Ion Ratio Lower Upper

75 100

77 32.4 25.5 38.3



#61

Bromoform

Concen: 48.281 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

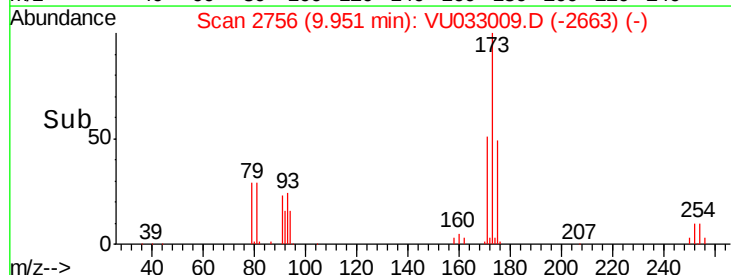
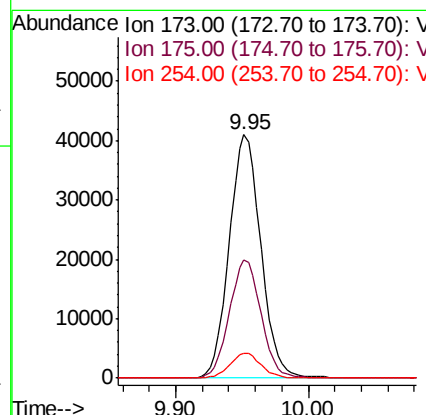
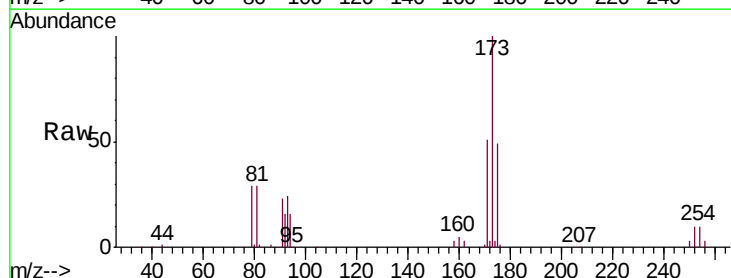
Tgt Ion: 173 Resp: 68025

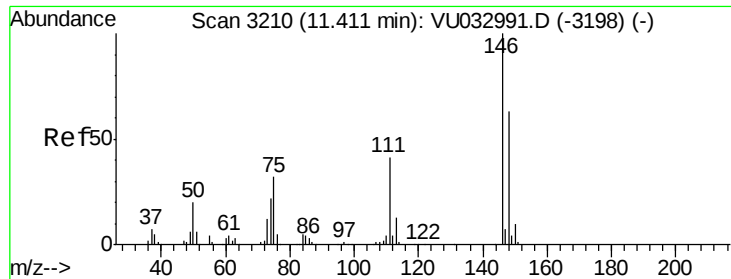
Ion Ratio Lower Upper

173 100

175 48.4 39.0 58.4

254 9.8 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 51.447 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampled :

VSTD05037

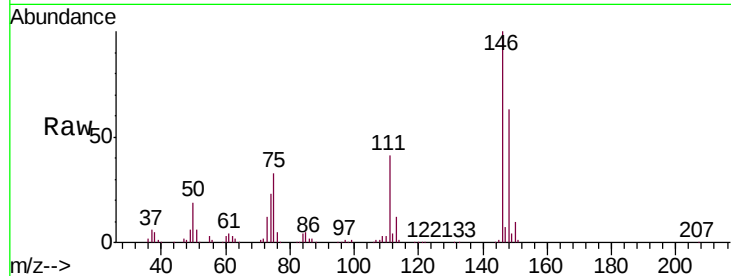
Tgt Ion:146 Resp: 172548

Ion Ratio Lower Upper

146 100

111 40.8 28.4 52.8

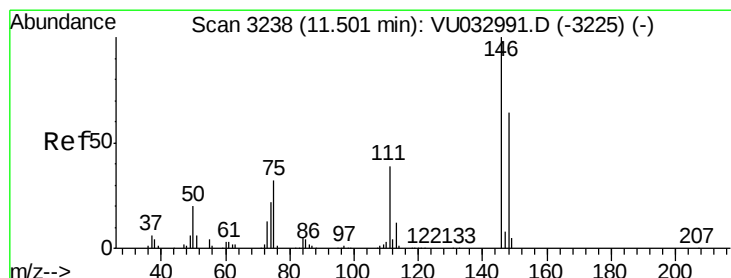
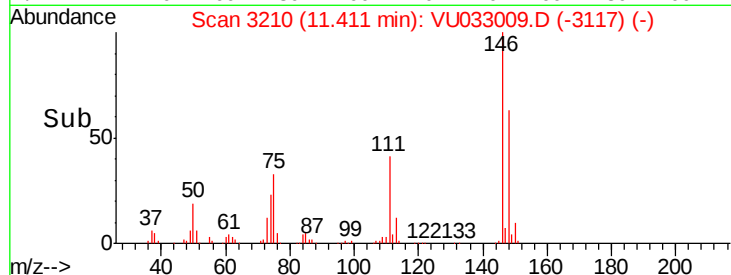
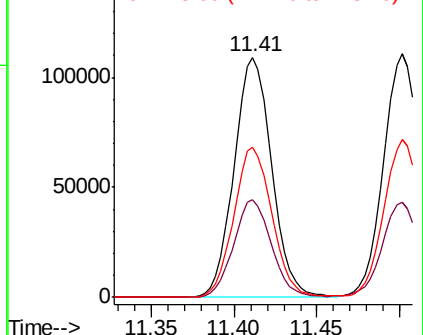
148 62.7 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

150000 Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.498 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

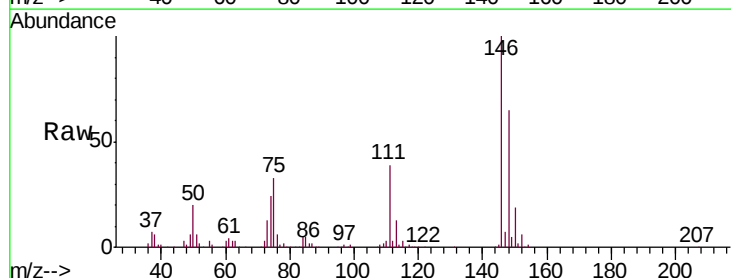
Tgt Ion:146 Resp: 174934

Ion Ratio Lower Upper

146 100

111 39.0 26.9 50.1

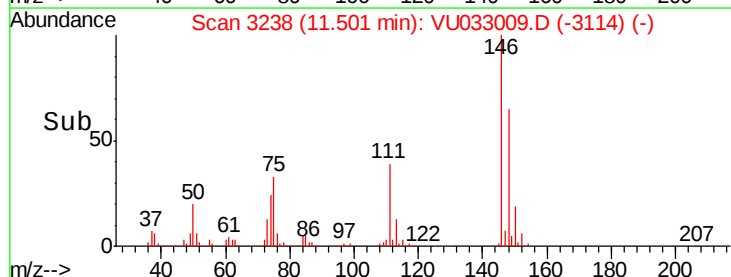
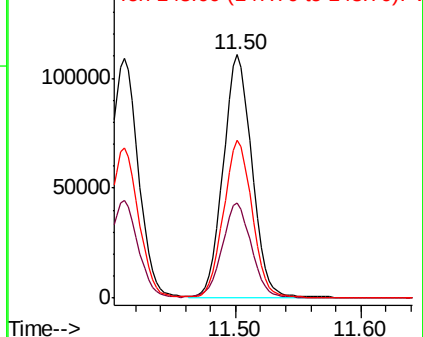
148 64.6 44.7 83.1

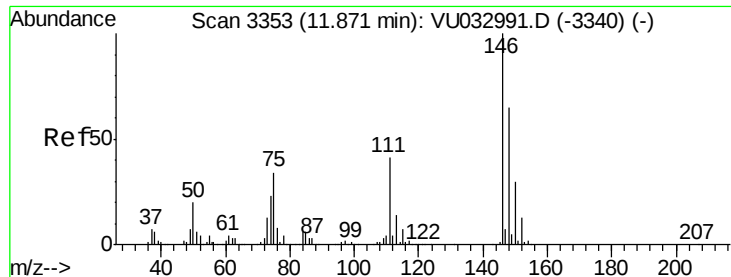


Abundance Ion 146.00 (145.70 to 146.70): V

150000 Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

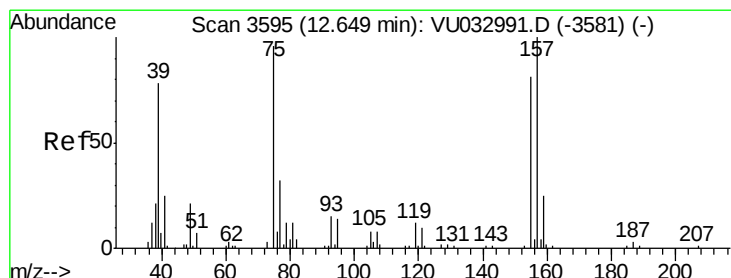
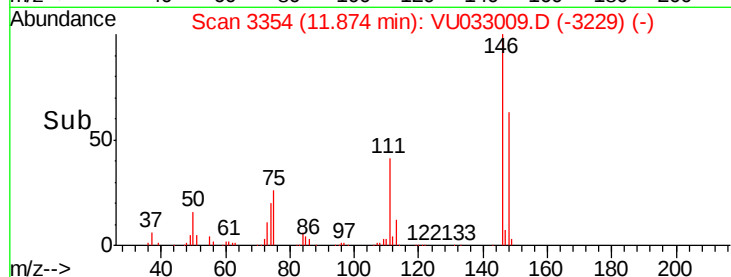
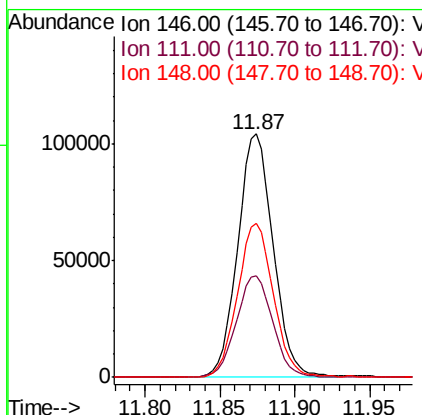
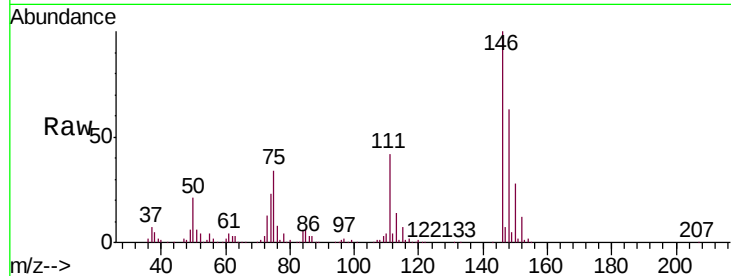




#65
 1,2-Dichlorobenzene
 Concen: 50.075 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

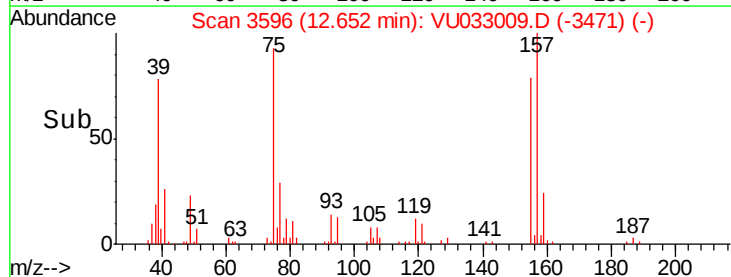
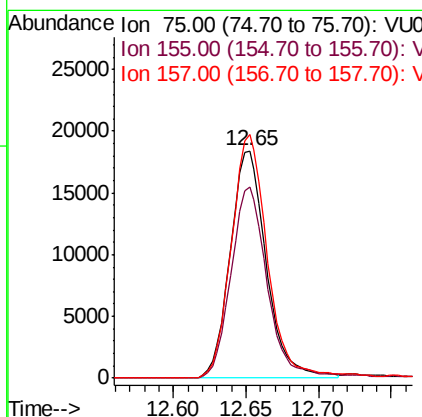
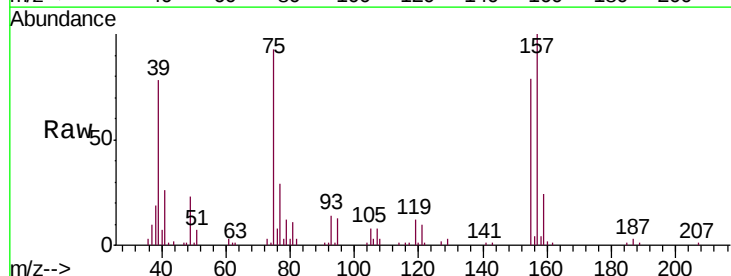
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

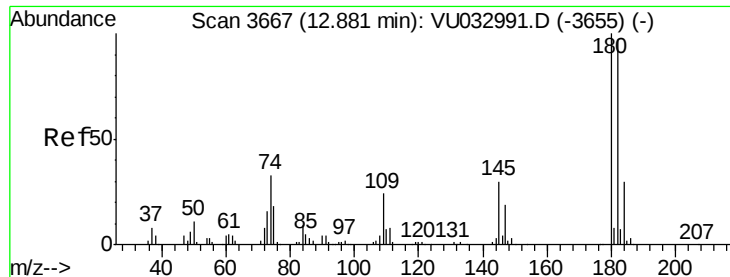
Tgt Ion: 146 Resp: 171482
 Ion Ratio Lower Upper
 146 100
 111 41.8 34.1 51.1
 148 63.3 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.809 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

Tgt Ion: 75 Resp: 31889
 Ion Ratio Lower Upper
 75 100
 155 84.2 67.4 101.2
 157 107.2 85.5 128.3

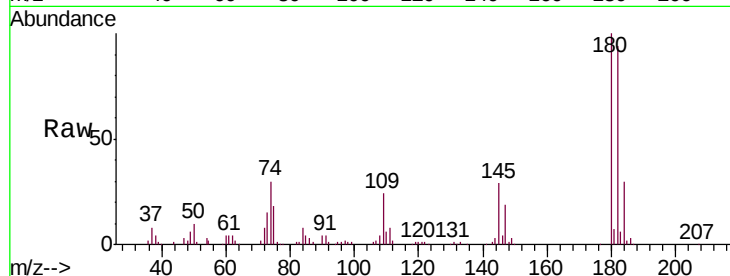




#67
 1,3,5-Trichlorobenzene
 Concen: 51.566 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	78.3	117.5
184	30.7	24.8	37.2
145	29.8	23.4	35.2



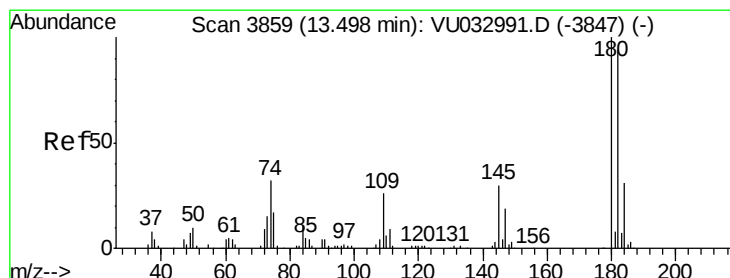
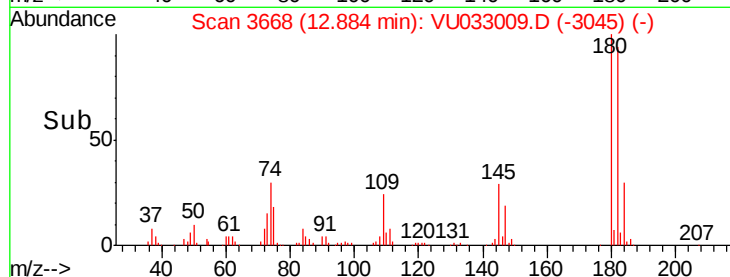
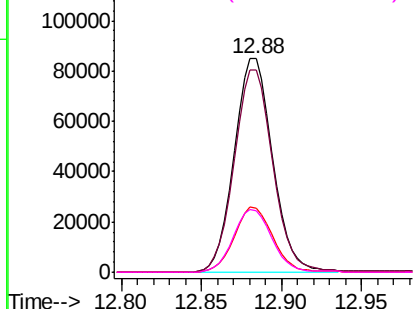
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

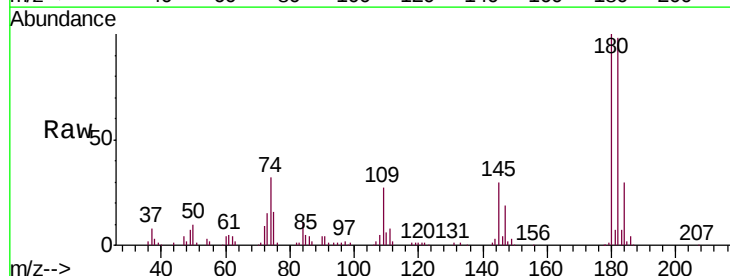
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.963 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU033009.D
 Acq: 24 Jun 2019 16:44

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.2	114.4
145	29.7	23.8	35.8

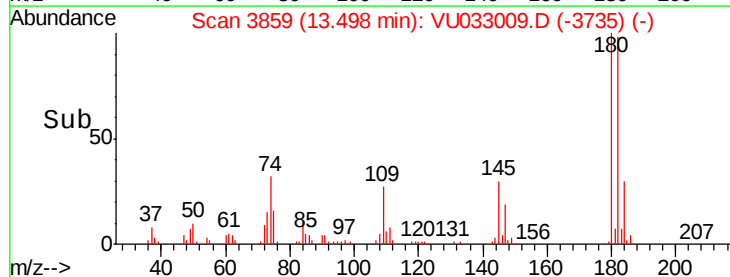
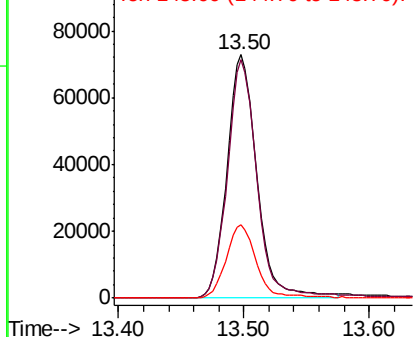


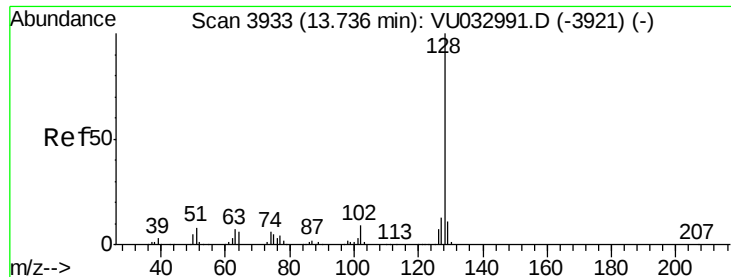
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 51.693 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

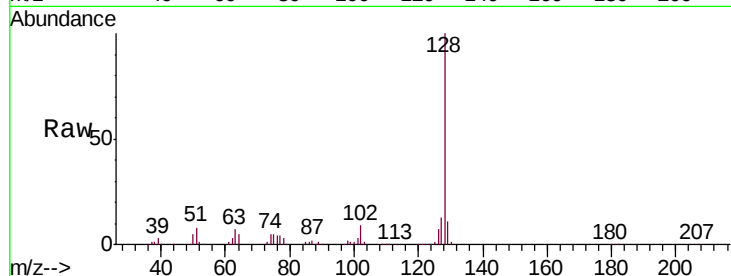
Tgt Ion:128 Resp: 368553

Ion Ratio Lower Upper

128 100

127 12.4 10.3 15.5

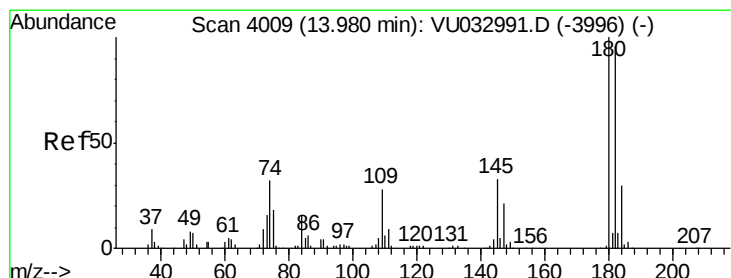
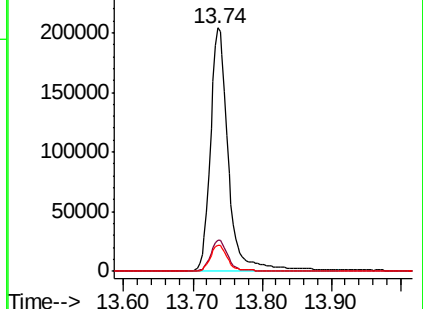
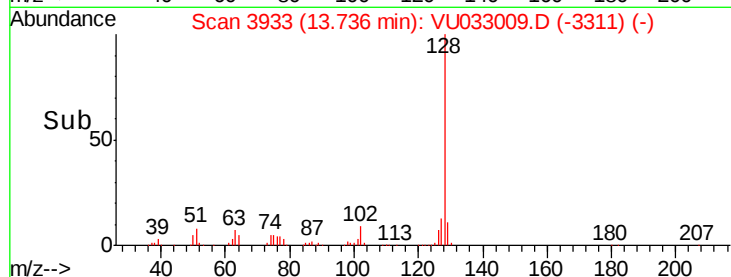
129 10.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.704 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU033009.D

Acq: 24 Jun 2019 16:44

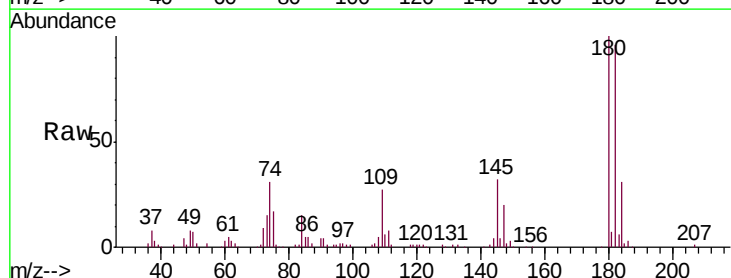
Tgt Ion:180 Resp: 124467

Ion Ratio Lower Upper

180 100

182 95.3 77.0 115.6

145 32.3 25.5 38.3



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

