

Data File : VV012321.D
Acq On : 21 Aug 2019 18:18
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05076

Quant Time: Aug 22 03:43:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM082119WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 22 03:36:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	243464	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	227813	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	122727	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	51128	44.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.72%
7) Chloroethane-d5	1.58	69	37256	45.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.16%
11) 1,1-Dichloroethene-d2	2.13	63	102871	45.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.66%
21) 2-Butanone-d5	3.92	46	82706	92.05	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.05%
24) Chloroform-d	4.40	84	151834	46.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.68%
26) 1,2-Dichloroethane-d4	5.08	65	104063	46.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.12%
32) Benzene-d6	5.10	84	277750	45.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.44%
36) 1,2-Dichloropropane-d6	6.12	67	75631	46.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.08%
41) Toluene-d8	7.36	98	272676	46.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.10%
43) trans-1,3-Dichloropropene-	7.66	79	46934	46.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.78%
47) 2-Hexanone-d5	8.13	63	64785	95.55	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.55%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	107826	46.08	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.16%
64) 1,2-Dichlorobenzene-d4	11.67	152	122493	45.40	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	94296	45.213	ug/L 100
3) Chloromethane	1.25	50	54213	45.604	ug/L 97
5) Vinyl chloride	1.32	62	54371	46.239	ug/L 97
6) Bromomethane	1.52	94	29594	48.276	ug/L 95
8) Chloroethane	1.59	64	30633	46.047	ug/L 99
9) Trichlorofluoromethane	1.77	101	111572	47.165	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	50295	46.921	ug/L 99
12) 1,1-Dichloroethene	2.14	96	46296	47.274	ug/L 87
13) Acetone	2.18	43	54585	80.957	ug/L 97
14) Carbon disulfide	2.32	76	173137	46.956	ug/L 100
15) Methyl Acetate	2.45	43	59001	46.635	ug/L 99
16) Methylene chloride	2.53	84	69118	46.324	ug/L 99
17) trans-1,2-Dichloroethene	2.79	96	69917	47.178	ug/L 99
18) Methyl tert-butyl Ether	2.80	73	237948	48.466	ug/L 99
19) 1,1-Dichloroethane	3.23	63	117957	47.401	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	79622	48.281	ug/L 99
22) 2-Butanone	4.01	43	89844	92.859	ug/L 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	43821	48.025	ug/L	92
25) Chloroform	4.42	83	145101	47.231	ug/L	99
27) 1,2-Dichloroethane	5.18	62	120464	48.240	ug/L	100
29) Cyclohexane	4.72	56	96268	46.416	ug/L	98
30) 1,1,1-Trichloroethane	4.66	97	138567	47.251	ug/L	98
31) Carbon tetrachloride	4.87	117	130459	47.356	ug/L	99
33) Benzene	5.14	78	275254	47.934	ug/L	100
34) Trichloroethene	5.96	95	79222	47.103	ug/L	99
35) Methylcyclohexane	6.18	83	118176	46.469	ug/L	97
37) 1,2-Dichloropropane	6.22	63	61446	47.202	ug/L	100
38) Bromodichloromethane	6.55	83	109506	48.061	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	115961	47.986	ug/L	100
40) 4-Methyl-2-pentanone	7.27	43	172117	98.336	ug/L	99
42) Toluene	7.43	91	309204	47.736	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	112609	48.893	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	72307	48.048	ug/L	96
46) Tetrachloroethene	8.02	164	74100	46.041	ug/L	98
48) 2-Hexanone	8.18	43	135202	102.318	ug/L	98
49) Dibromochloromethane	8.29	129	97811	48.064	ug/L	99
50) 1,2-Dibromoethane	8.40	107	80254	48.053	ug/L	99
51) Chlorobenzene	8.92	112	208735	46.550	ug/L	99
52) Ethylbenzene	9.05	91	355016	47.422	ug/L	99
53) m,p-Xylene	9.18	106	137593	47.357	ug/L	99
54) o-xylene	9.59	106	137700	48.285	ug/L	100
55) Styrene	9.60	104	230035	48.170	ug/L	99
56) Isopropylbenzene	9.97	105	369111	47.774	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	103946	47.534	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	87713	47.285	ug/L	99
61) Bromoform	9.77	173	76589	47.272	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	179730	47.037	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	182386	47.301	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	183383	47.428	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	27730	49.298	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	146409	48.339	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	119233	50.314	ug/L	100
69) Naphthalene	13.55	128	333419	52.372	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	123845	51.043	ug/L	99

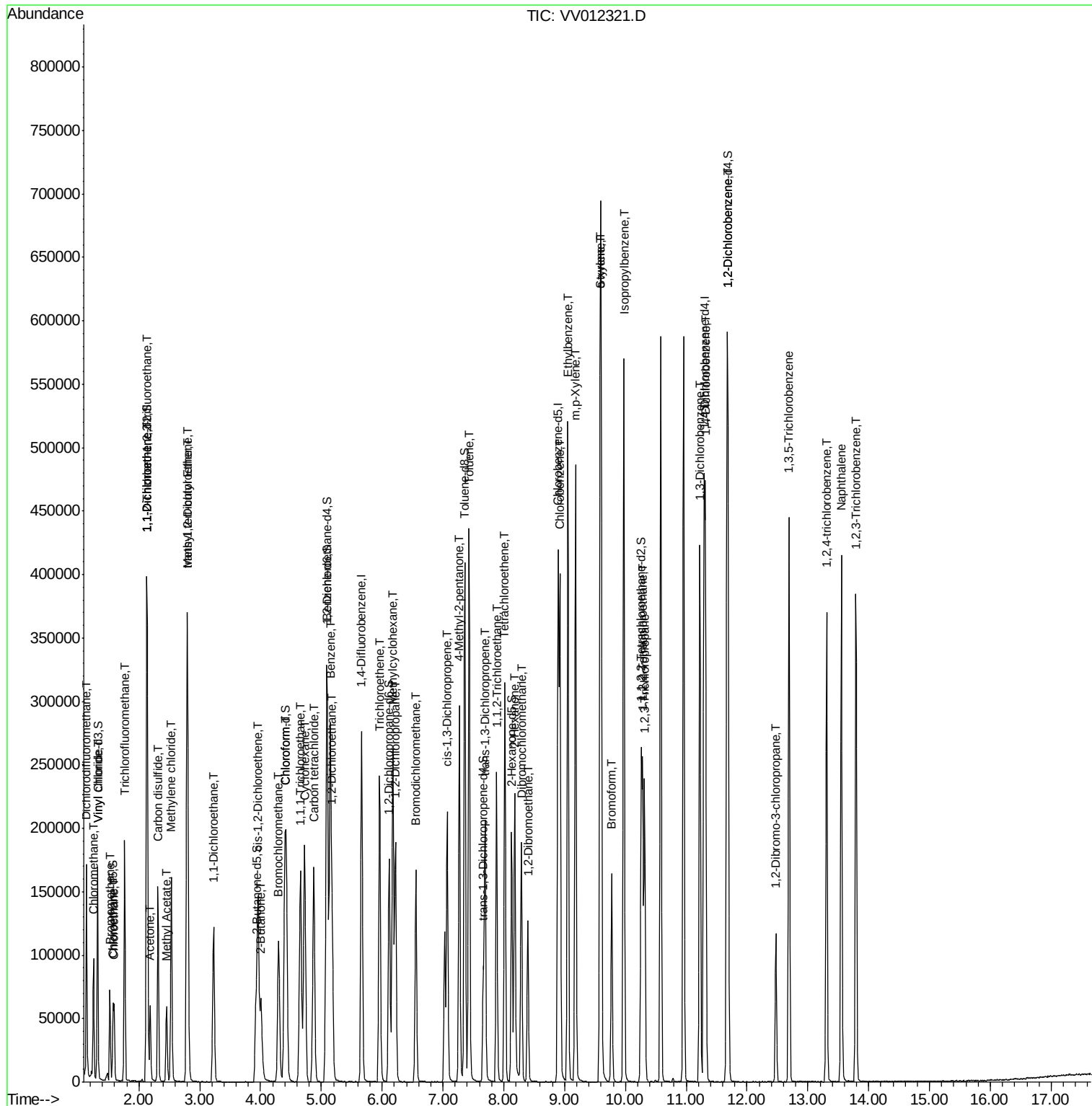
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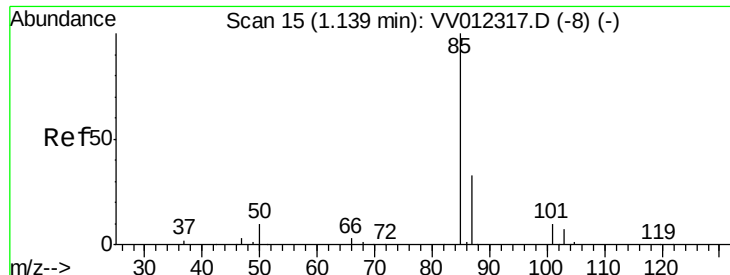
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#2

Dichlorodifluoromethane

Concen: 45.213 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

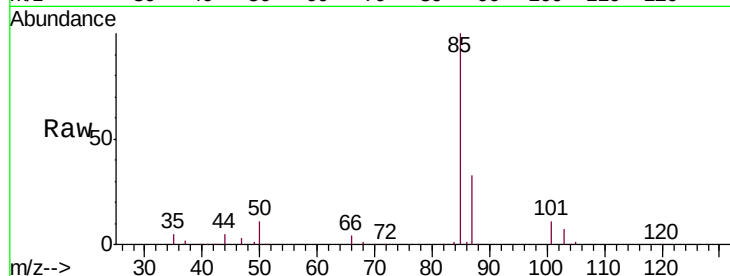
VSTD05076

Tgt Ion: 85 Resp: 94296

Ion Ratio Lower Upper

85 100

87 32.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV012317.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012317.D (-8) (-)

1.14

100000

80000

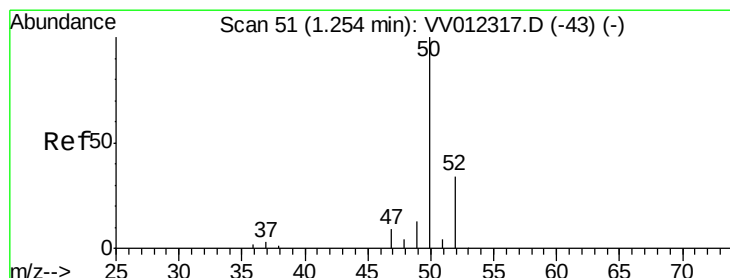
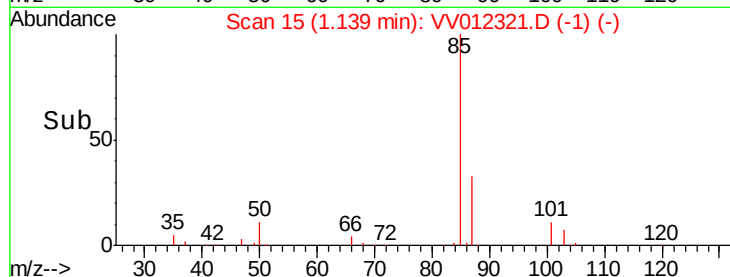
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 45.604 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV012321.D

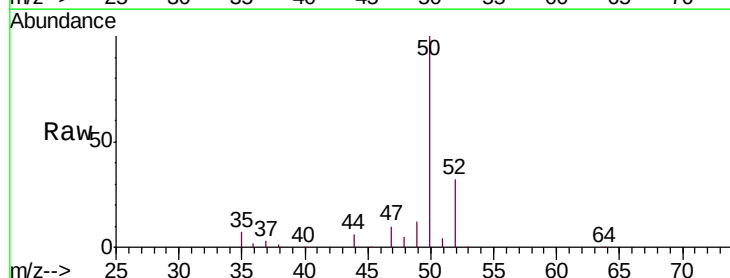
Acq: 21 Aug 2019 18:18

Tgt Ion: 50 Resp: 54213

Ion Ratio Lower Upper

50 100

52 32.4 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VV012317.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV012317.D (-43) (-)

1.25

60000

50000

40000

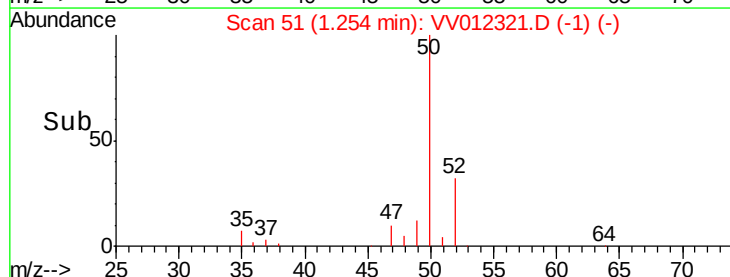
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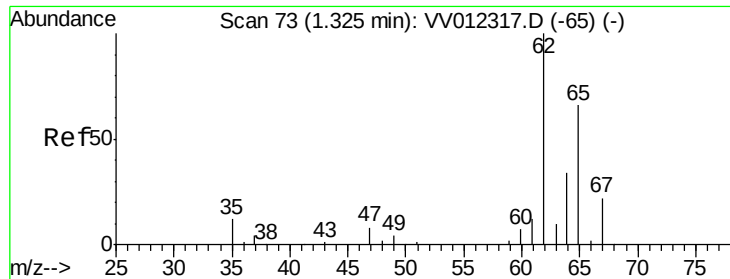
20000

10000

0

Time-->





#5

Vinyl chloride

Concen: 46.239 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

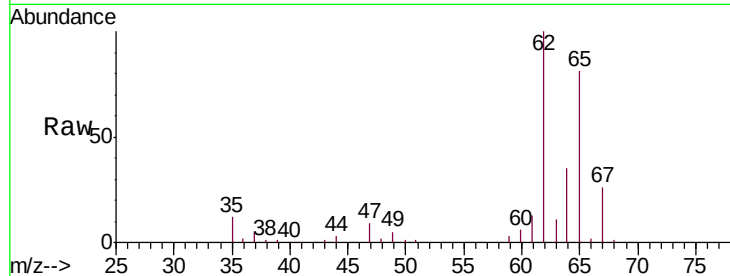
VSTD05076

Tgt Ion: 62 Resp: 54371

Ion Ratio Lower Upper

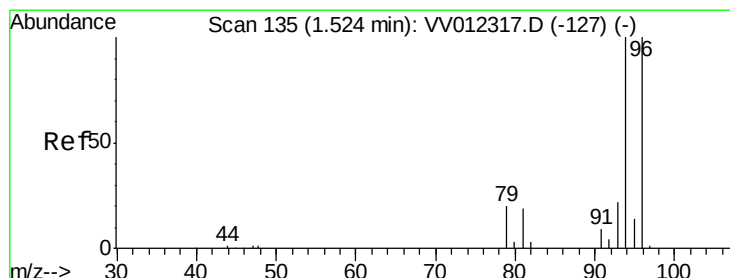
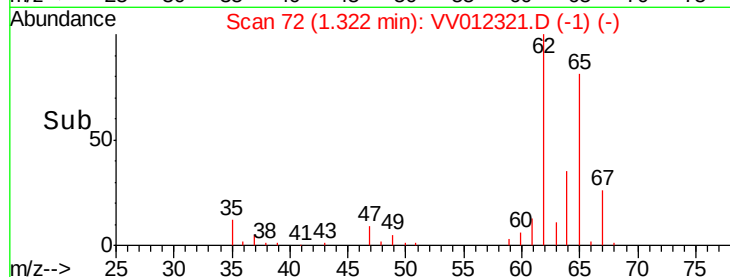
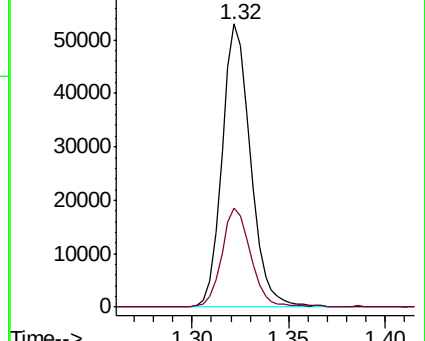
62 100

64 35.2 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 48.276 ug/L

RT: 1.52 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV012321.D

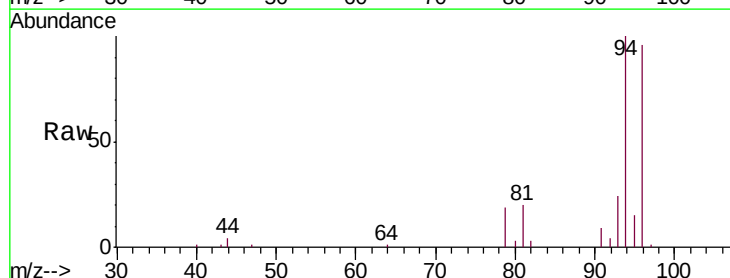
Acq: 21 Aug 2019 18:18

Tgt Ion: 94 Resp: 29594

Ion Ratio Lower Upper

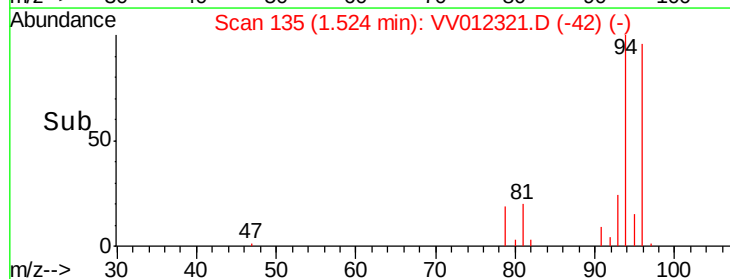
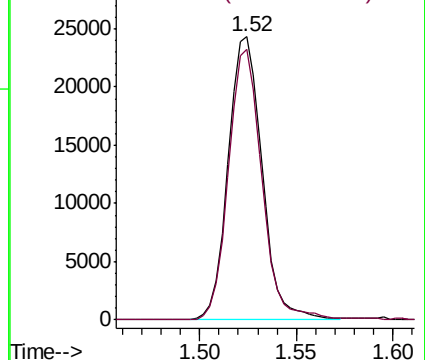
94 100

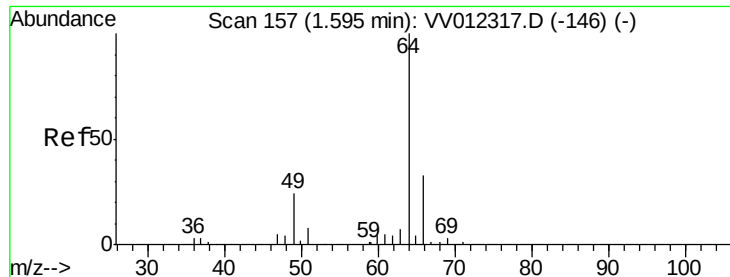
96 95.5 70.1 130.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 46.047 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

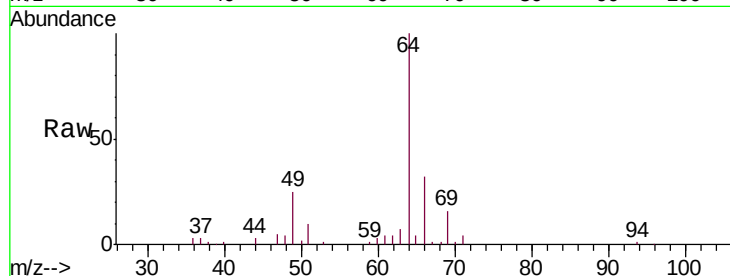
VSTD05076

Tgt Ion: 64 Resp: 30633

Ion Ratio Lower Upper

64 100

66 32.3 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0

1.59

25000

20000

15000

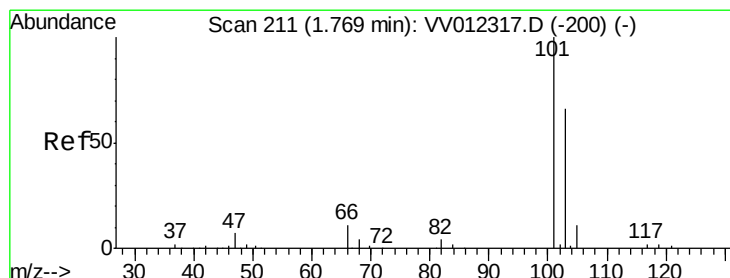
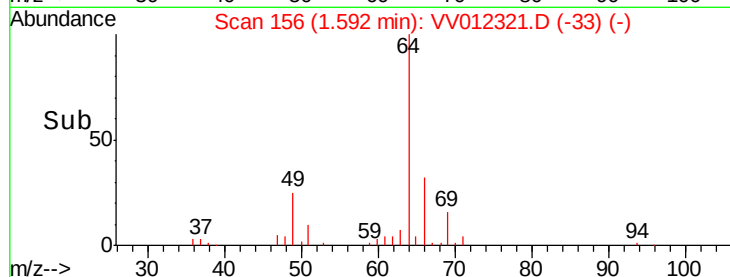
10000

5000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 47.165 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV012321.D

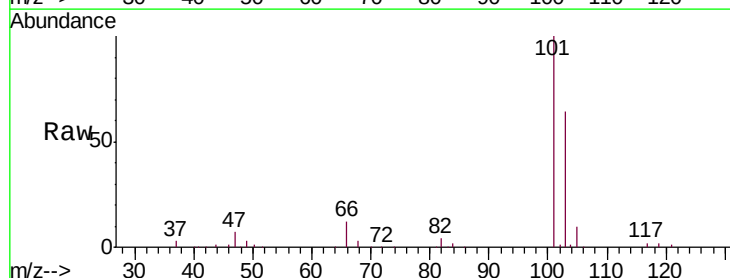
Acq: 21 Aug 2019 18:18

Tgt Ion: 101 Resp: 111572

Ion Ratio Lower Upper

101 100

103 64.8 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

100000

80000

60000

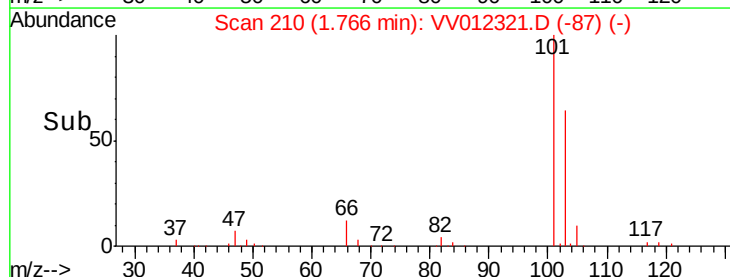
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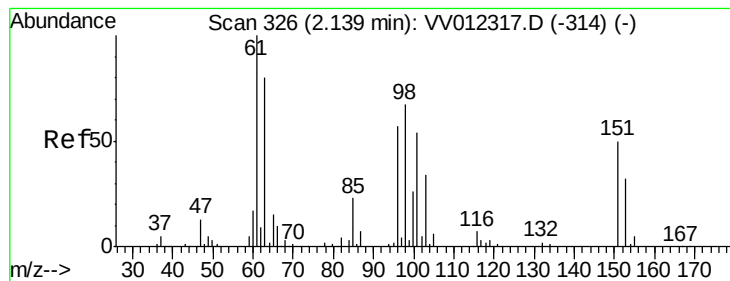
20000

0

1.70 1.75 1.80

Time-->





#10

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

Concen: 46.921 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012321.D

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Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

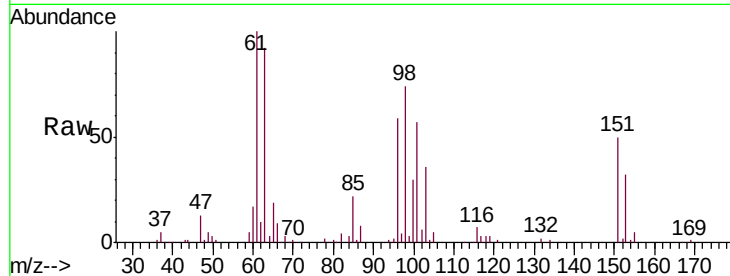
Tgt Ion:101 Resp: 50295

Ion Ratio Lower Upper

101 100

85 40.6 33.7 50.5

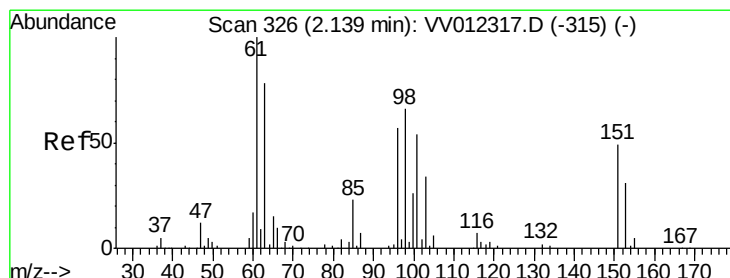
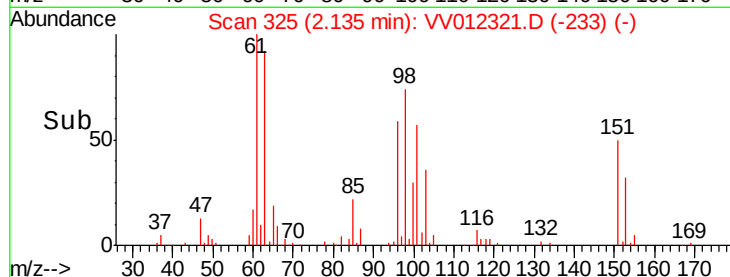
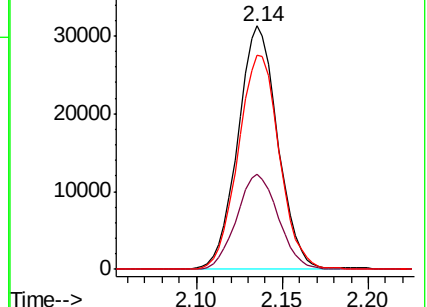
151 90.9 73.0 109.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 47.274 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

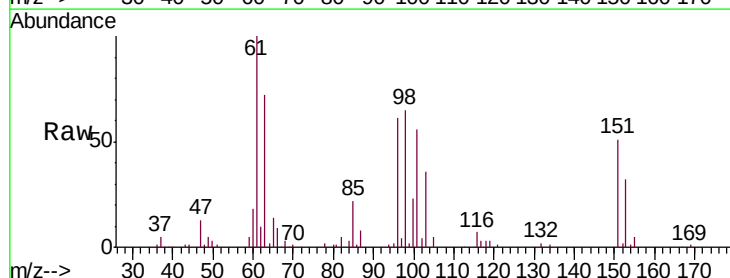
Tgt Ion: 96 Resp: 46296

Ion Ratio Lower Upper

96 100

61 163.5 122.6 227.8

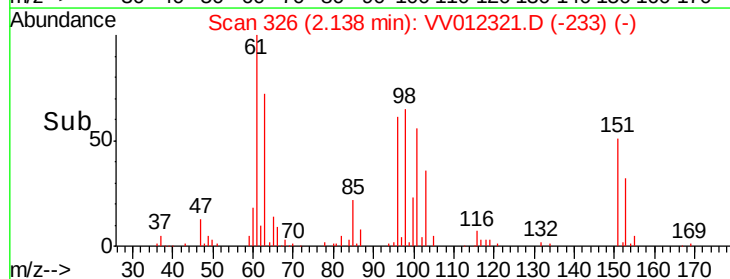
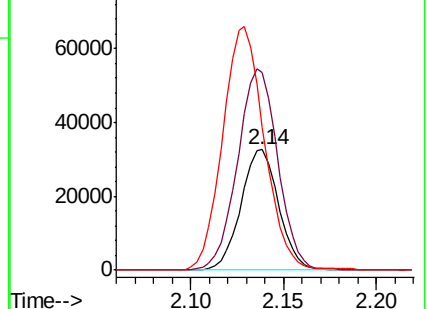
63 118.5 98.6 183.2

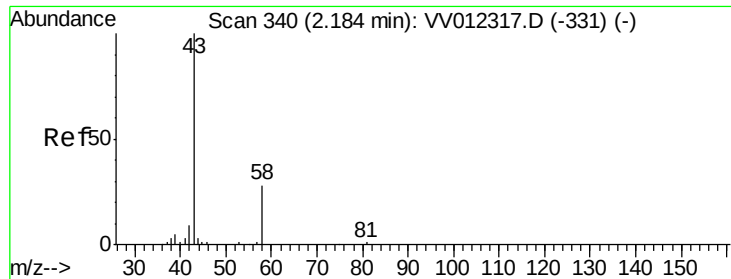


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 80.957 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

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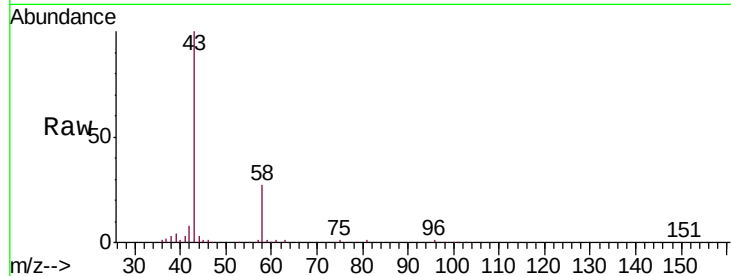
VSTD05076

Tgt Ion: 43 Resp: 54585

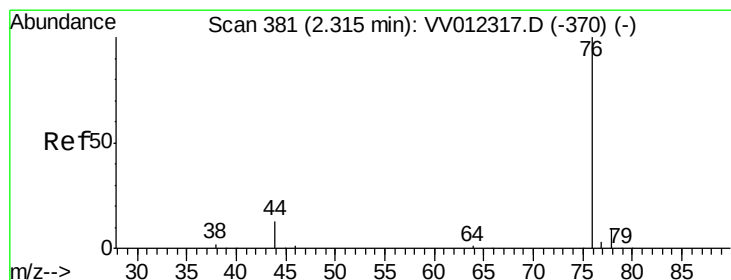
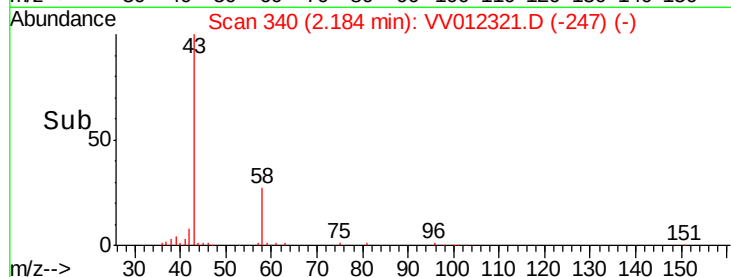
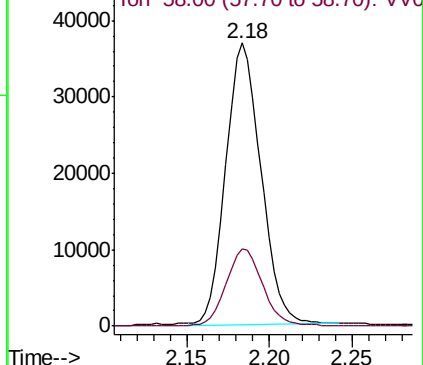
Ion Ratio Lower Upper

43 100

58 28.5 0.0 54.2



Abundance Ion 43.00 (42.70 to 43.70): VV012317.D (-331) (-)



#14

Carbon disulfide

Concen: 46.956 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012321.D

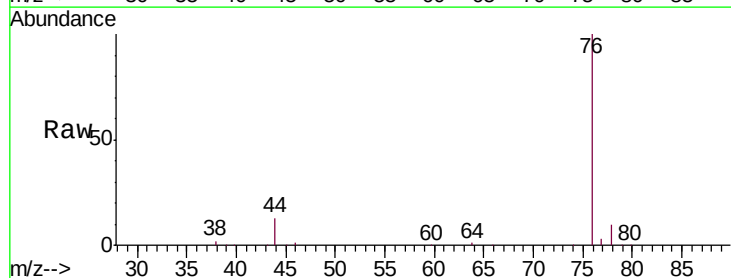
Acq: 21 Aug 2019 18:18

Tgt Ion: 76 Resp: 173137

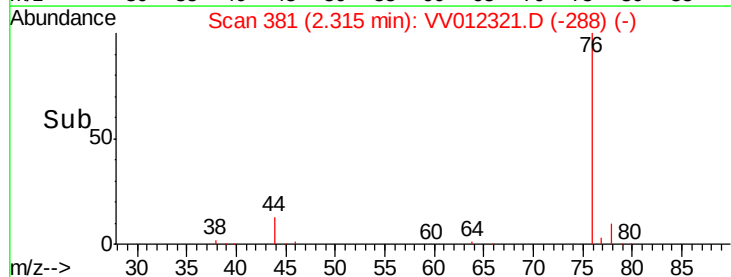
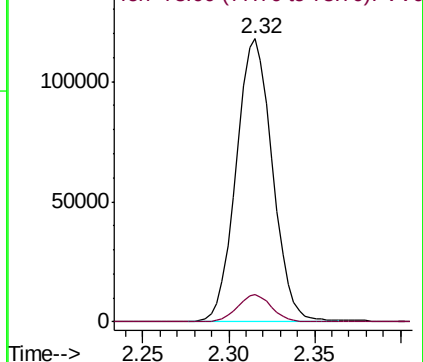
Ion Ratio Lower Upper

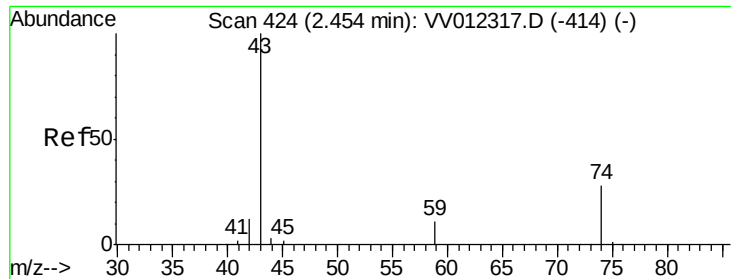
76 100

78 9.6 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VV012317.D (-370) (-)

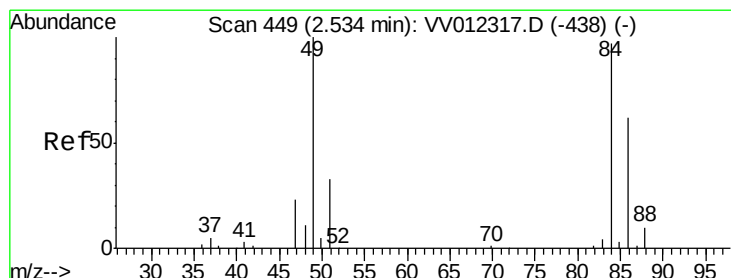
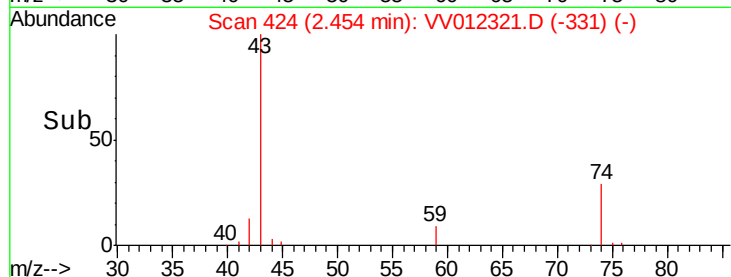
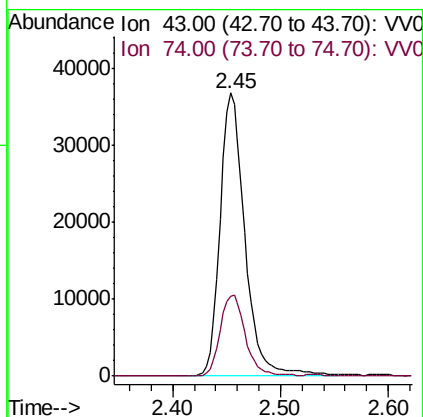
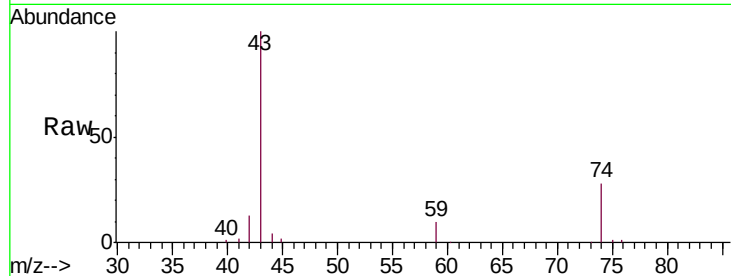




#15
Methyl Acetate
Concen: 46.635 ug/L
RT: 2.45 min Scan# 424
Delta R.T. -0.00 min
Lab File: VV012321.D
Acq: 21 Aug 2019 18:18

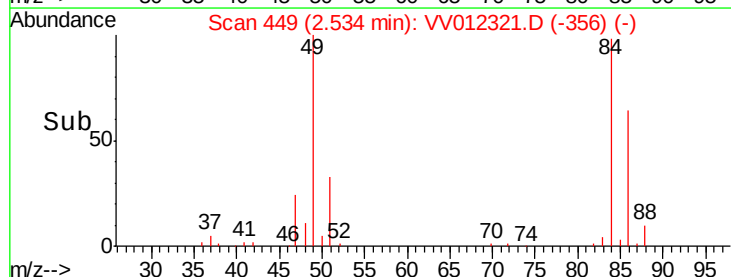
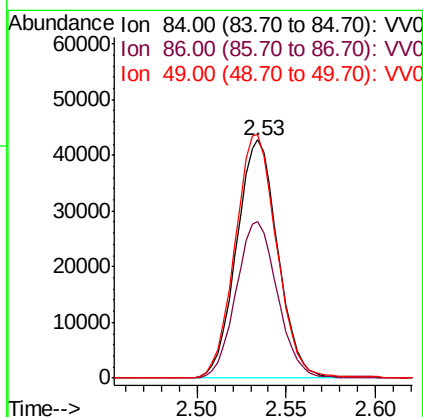
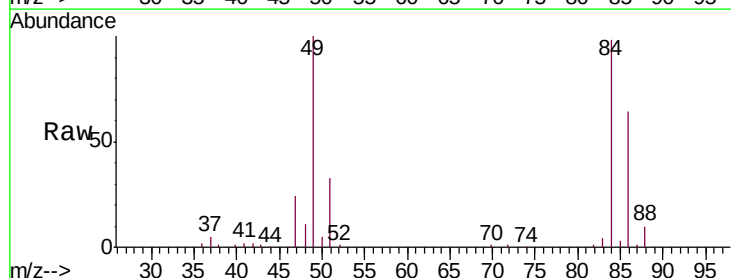
Instrument :
MSVOA_V
ClientSampleId :
VSTD05076

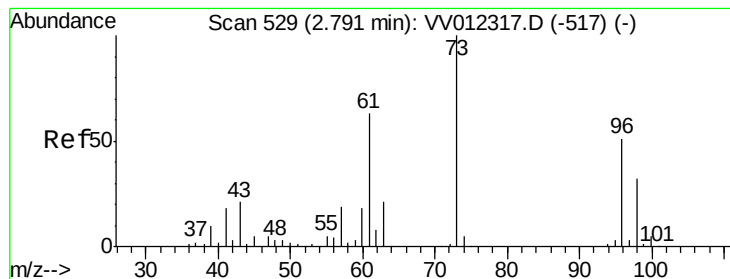
Tgt Ion: 43 Resp: 59001
Ion Ratio Lower Upper
43 100
74 29.0 22.6 33.8



#16
Methylene chloride
Concen: 46.324 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV012321.D
Acq: 21 Aug 2019 18:18

Tgt Ion: 84 Resp: 69118
Ion Ratio Lower Upper
84 100
86 65.6 44.7 83.1
49 102.1 72.1 133.9





#17

trans-1,2-Dichloroethene

Concen: 47.178 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

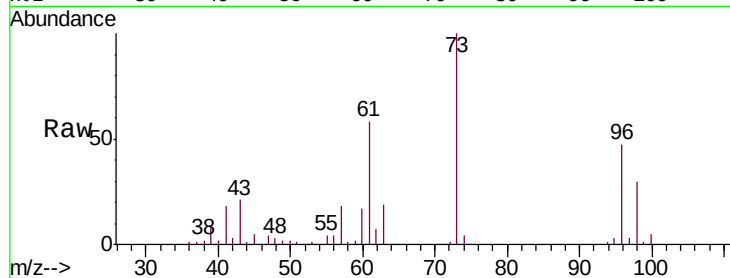
Tgt Ion: 96 Resp: 69917

Ion Ratio Lower Upper

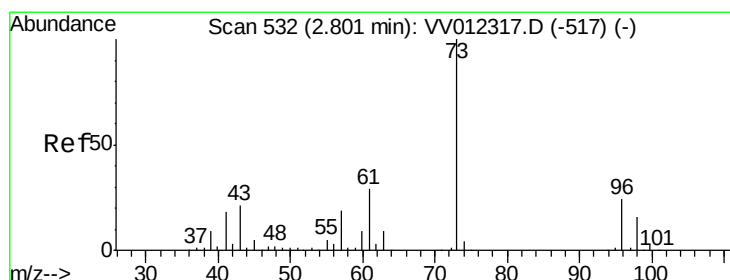
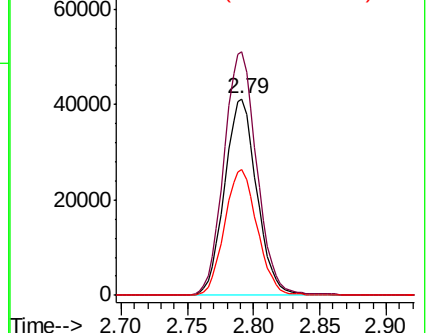
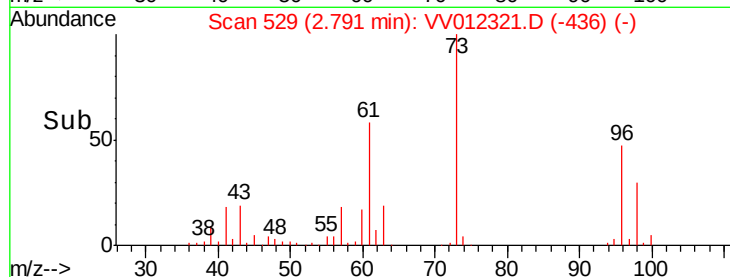
96 100

61 123.7 87.0 161.6

98 63.6 43.8 81.4



Abundance Ion 96.00 (95.70 to 96.70): VV012321.D (-436) (-)



#18

Methyl tert-butyl Ether

Concen: 48.466 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

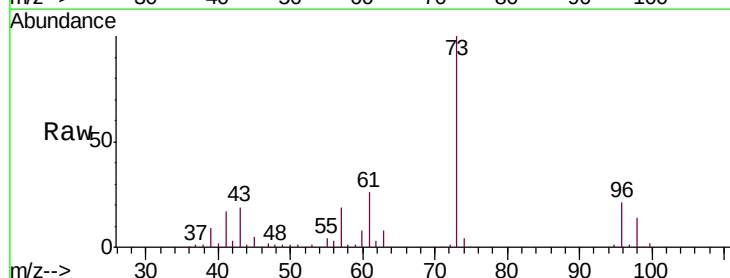
Tgt Ion: 73 Resp: 237948

Ion Ratio Lower Upper

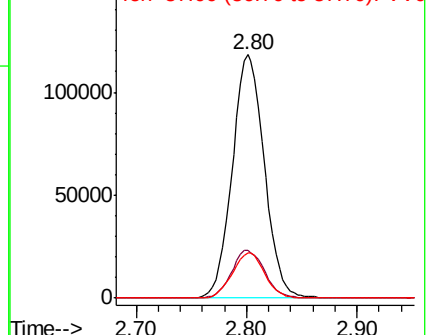
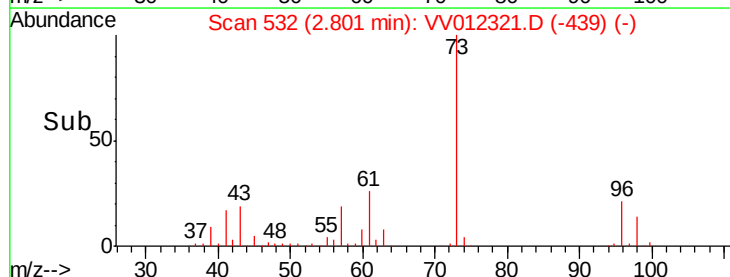
73 100

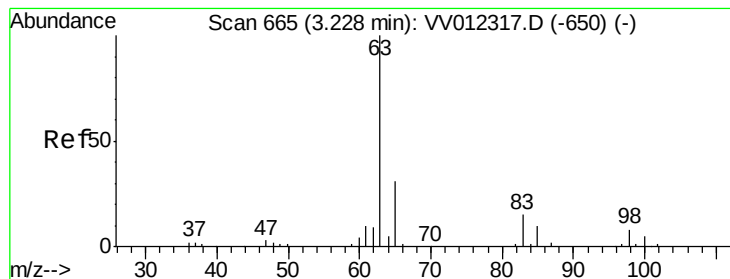
43 20.3 16.6 25.0

57 18.8 15.0 22.6



Abundance Ion 73.00 (72.70 to 73.70): VV012321.D (-439) (-)





#19

1,1-Dichloroethane

Concen: 47.401 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

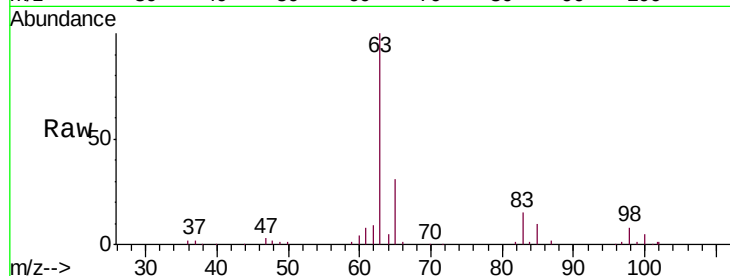
Tgt Ion: 63 Resp: 117957

Ion Ratio Lower Upper

63 100

65 31.3 21.7 40.3

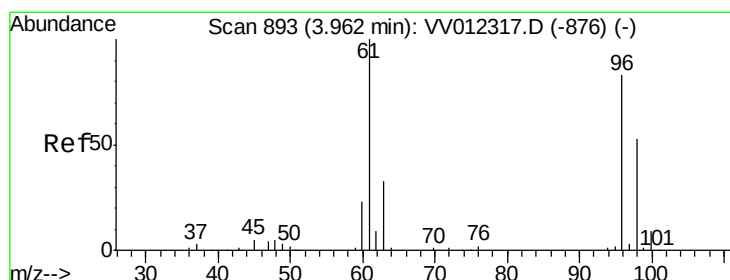
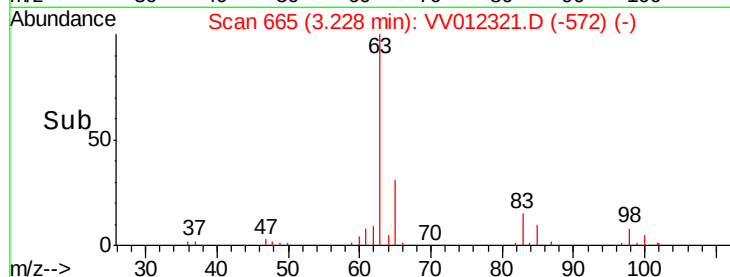
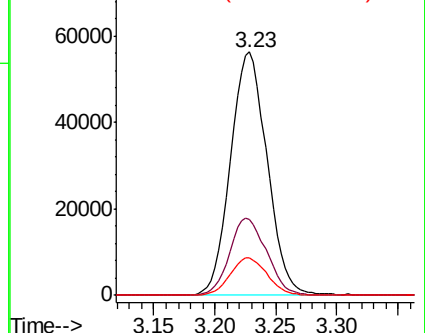
83 15.2 10.5 19.5



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 48.281 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

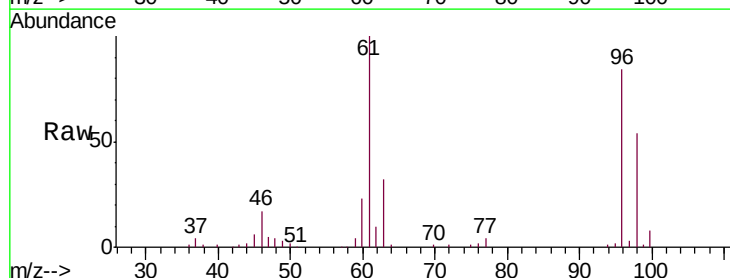
Tgt Ion: 96 Resp: 79622

Ion Ratio Lower Upper

96 100

61 119.5 84.4 156.7

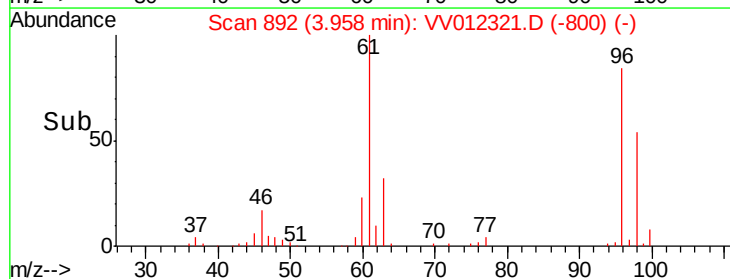
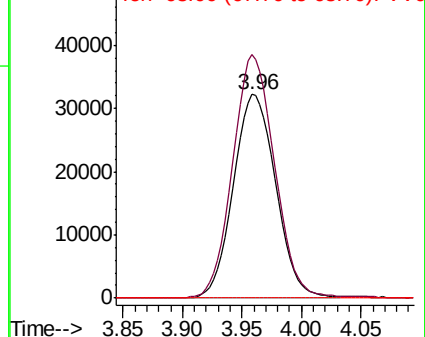
68 0.0 0.0 0.0

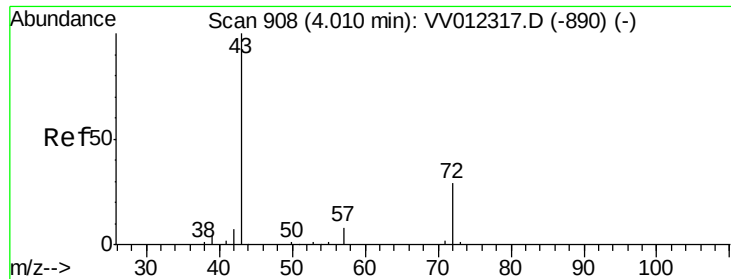


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 92.859 ug/L

RT: 4.01 min Scan# 907

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

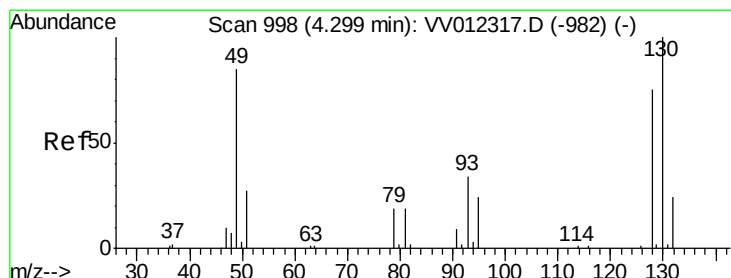
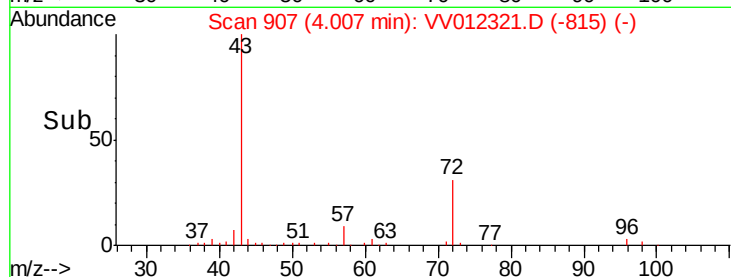
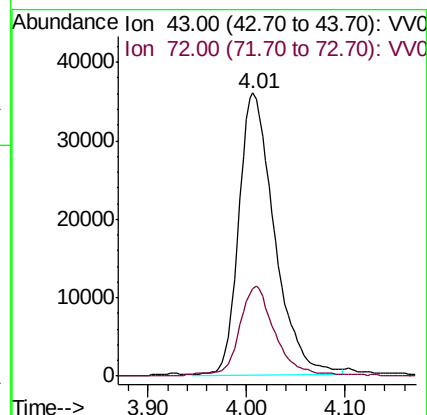
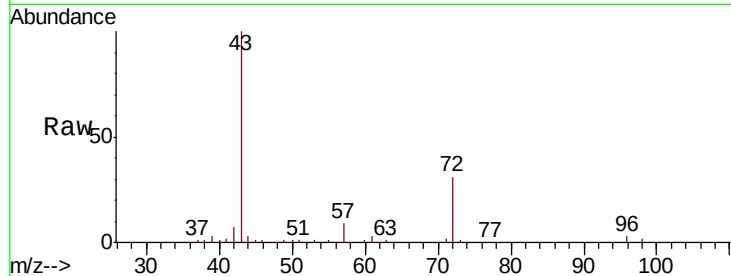
VSTD05076

Tgt Ion: 43 Resp: 89844

Ion Ratio Lower Upper

43 100

72 29.5 15.0 45.1



#23

Bromochloromethane

Concen: 48.025 ug/L

RT: 4.29 min Scan# 996

Delta R.T. -0.01 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Tgt Ion: 128 Resp: 43821

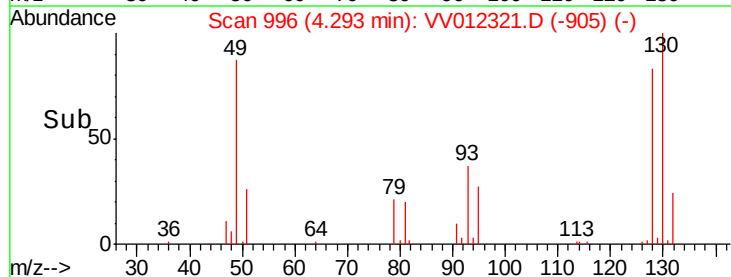
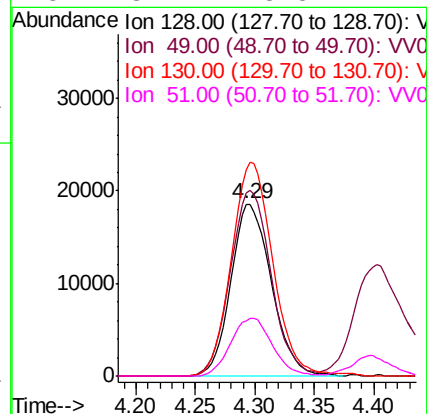
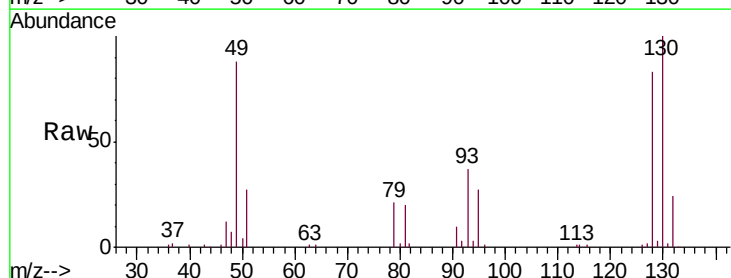
Ion Ratio Lower Upper

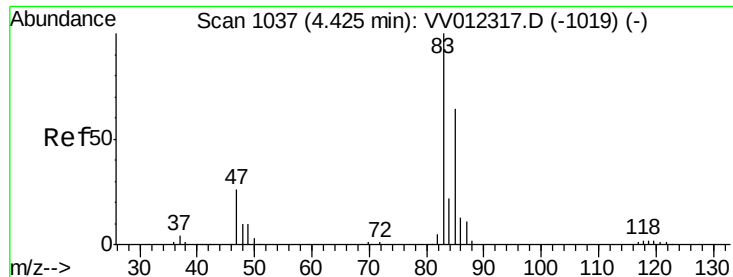
128 100

49 106.1 78.8 146.4

130 119.9 93.0 172.6

51 32.4 28.5 42.7

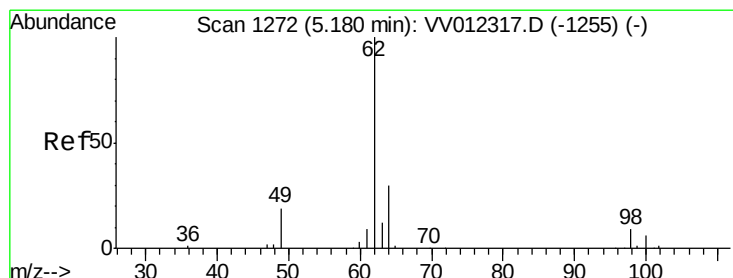
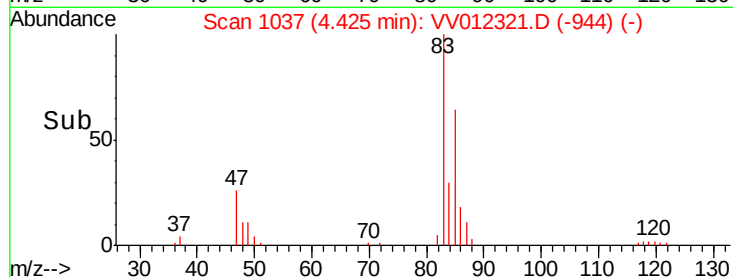
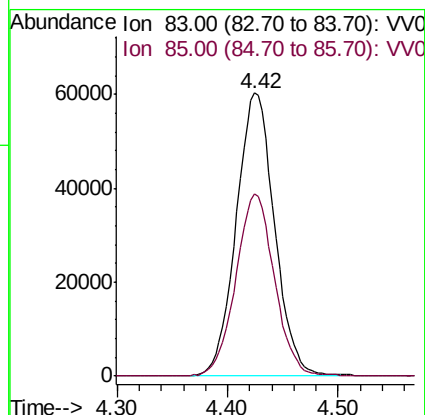
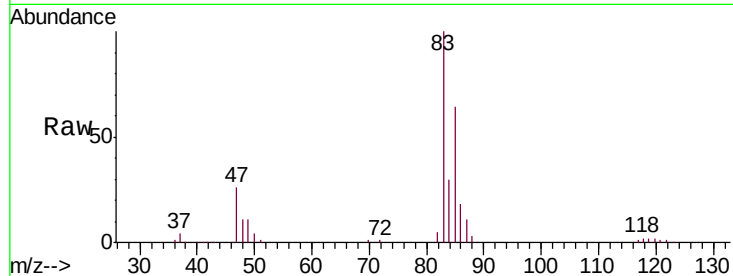




#25
Chloroform
Concen: 47.231 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV012321.D
Acq: 21 Aug 2019 18:18

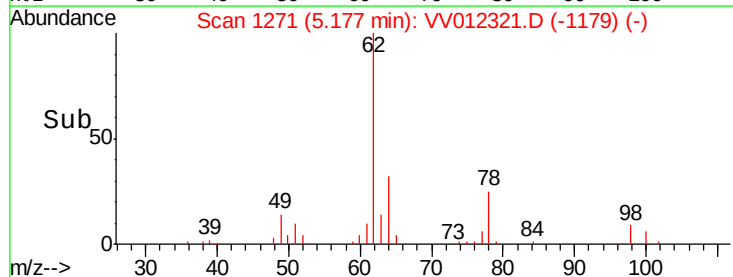
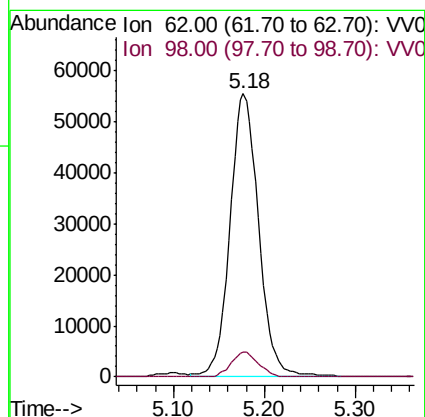
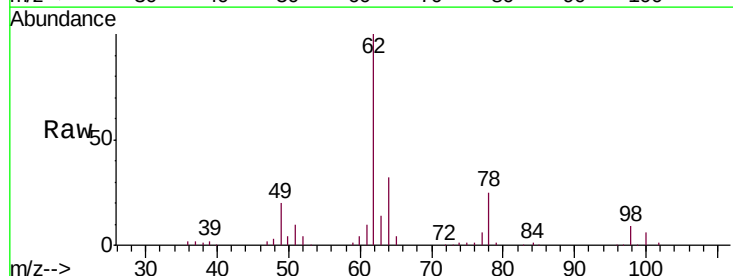
Instrument :
MSVOA_V
ClientSampleId :
VSTD05076

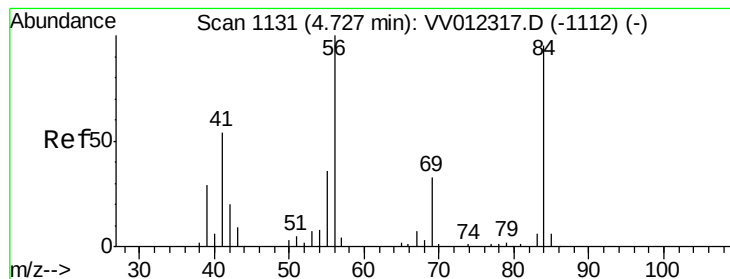
Tgt Ion: 83 Resp: 145101
Ion Ratio Lower Upper
83 100
85 64.4 44.5 82.7



#27
1,2-Dichloroethane
Concen: 48.240 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV012321.D
Acq: 21 Aug 2019 18:18

Tgt Ion: 62 Resp: 120464
Ion Ratio Lower Upper
62 100
98 8.7 6.9 10.3





#29

Cyclohexane

Concen: 46.416 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

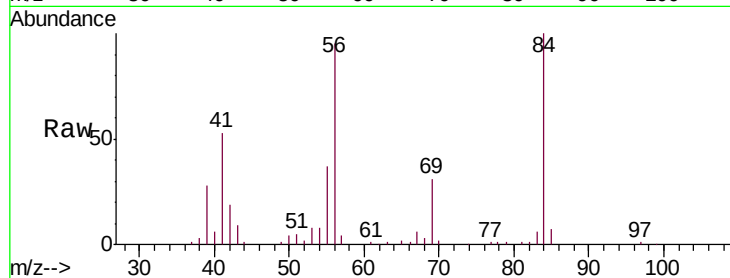
Tgt Ion: 56 Resp: 96268

Ion Ratio Lower Upper

56 100

69 33.6 26.8 40.2

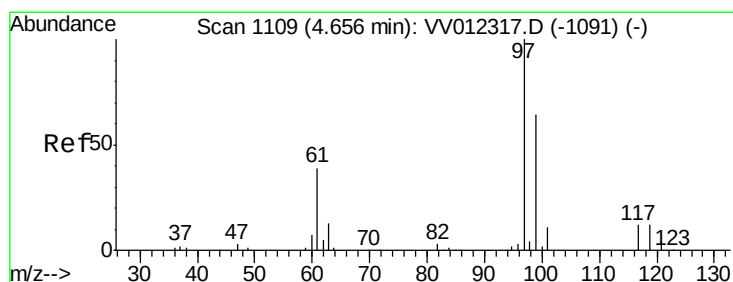
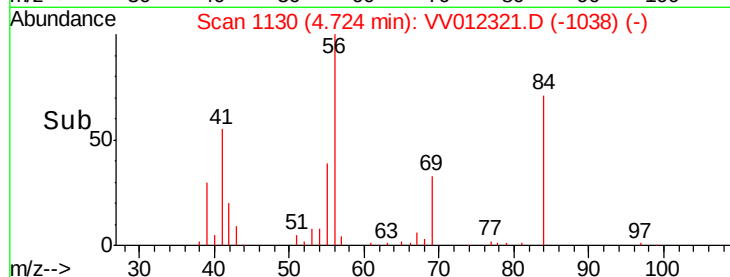
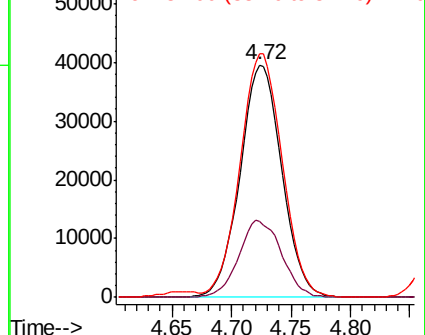
84 105.2 81.7 122.5



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 47.251 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

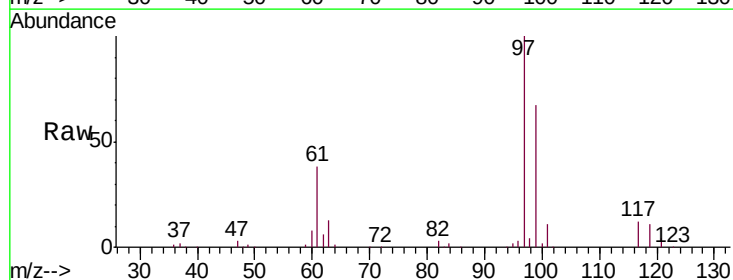
Tgt Ion: 97 Resp: 138567

Ion Ratio Lower Upper

97 100

99 65.5 50.8 76.2

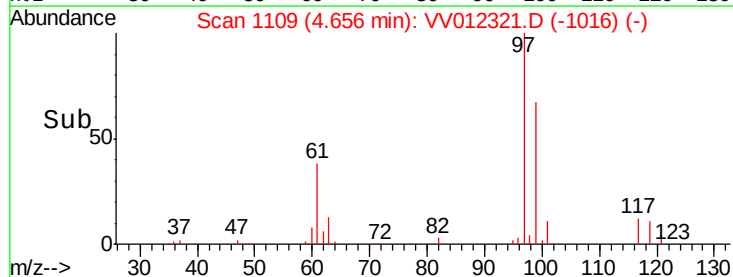
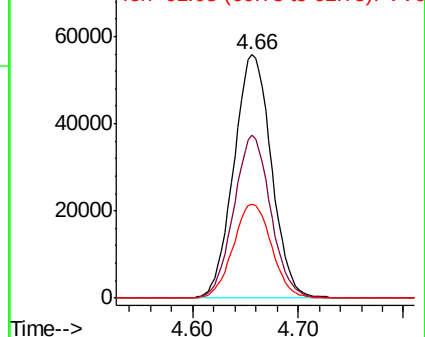
61 39.4 31.0 46.6

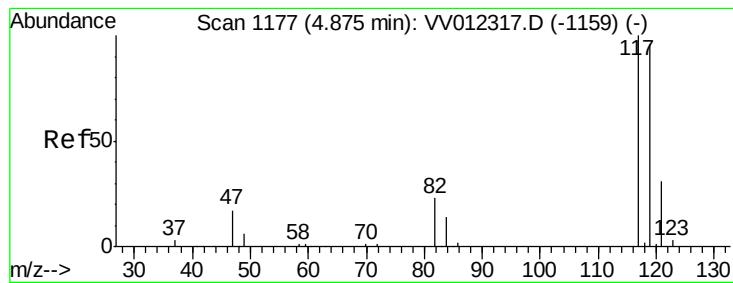


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 47.356 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

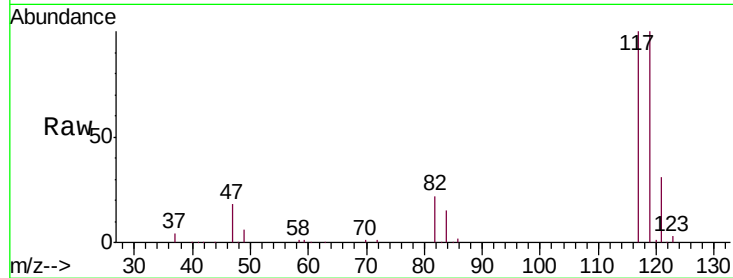
VSTD05076

Tgt Ion:117 Resp: 130459

Ion Ratio Lower Upper

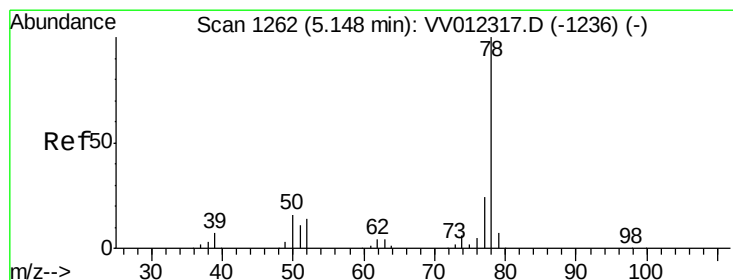
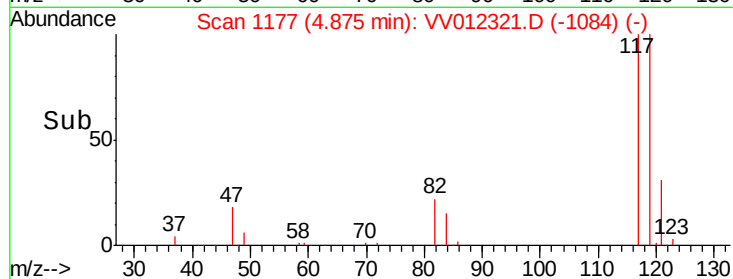
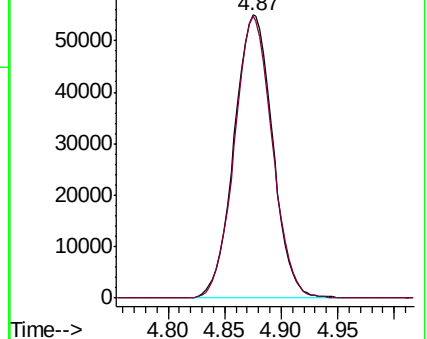
117 100

119 97.7 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 47.934 ug/L

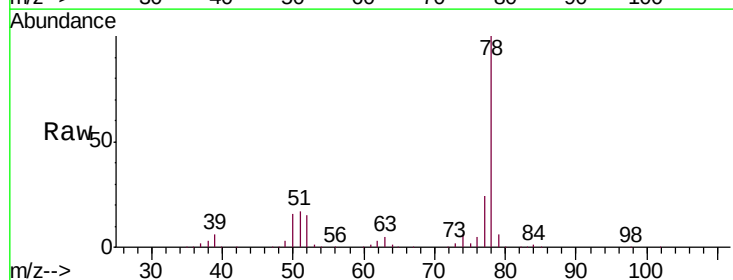
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

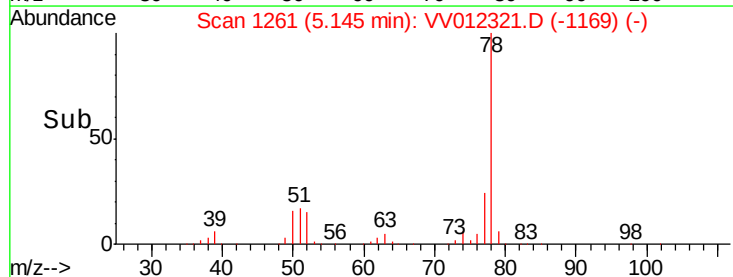
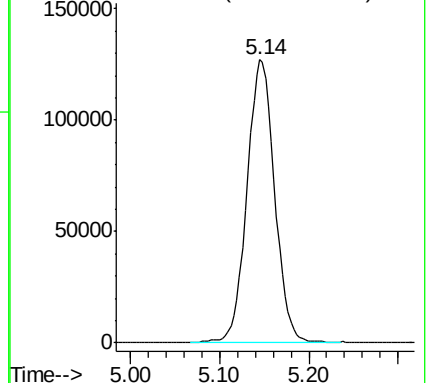
Lab File: VV012321.D

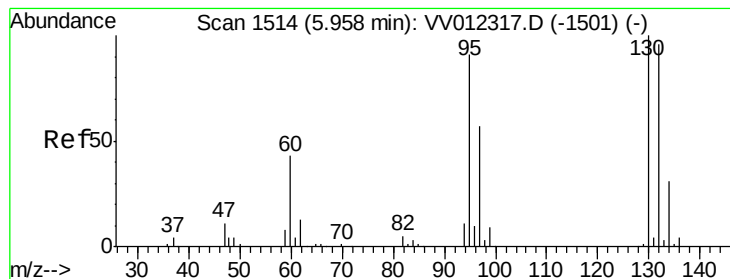
Acq: 21 Aug 2019 18:18

Tgt Ion: 78 Resp: 275254



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 47.103 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampled :

VSTD05076

Tgt Ion: 95 Resp: 79222

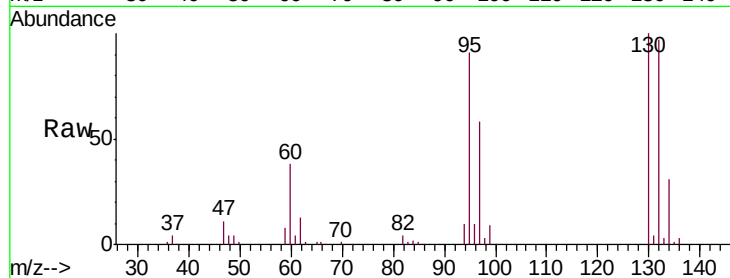
Ion Ratio Lower Upper

95 100

97 63.8 43.6 81.0

132 106.8 73.9 137.3

130 110.3 76.6 142.2

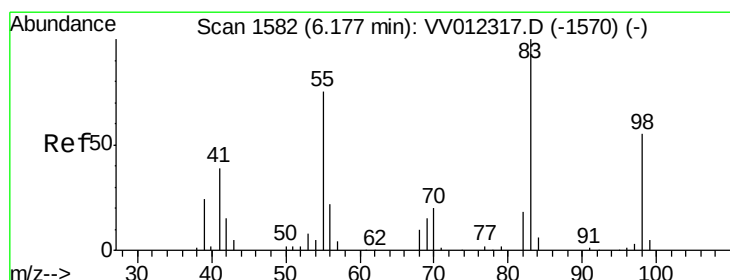
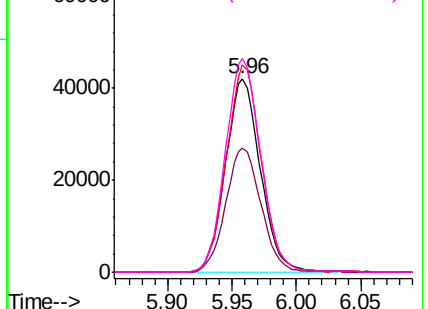
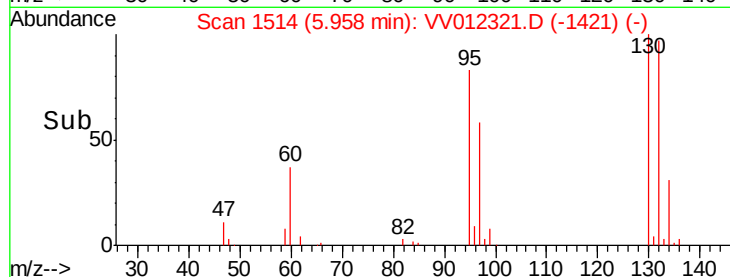


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 46.469 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

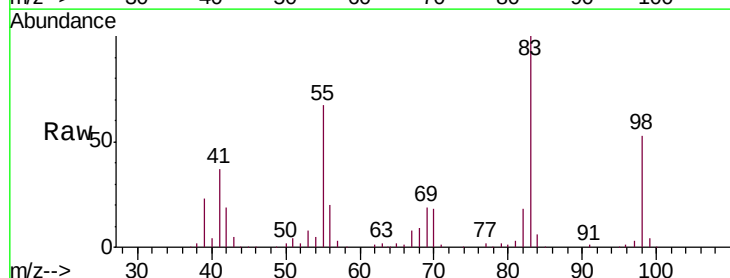
Tgt Ion: 83 Resp: 118176

Ion Ratio Lower Upper

83 100

55 67.1 56.2 84.4

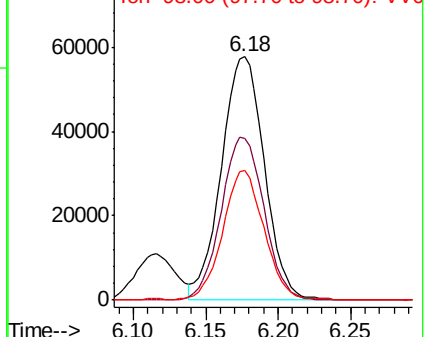
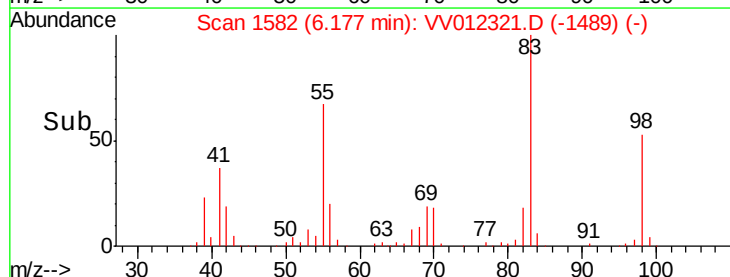
98 51.7 42.2 63.4

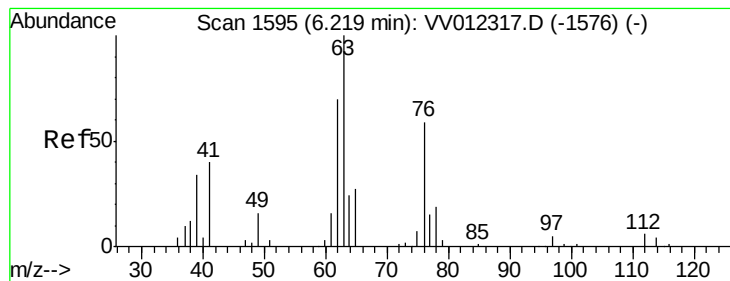


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 47.202 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

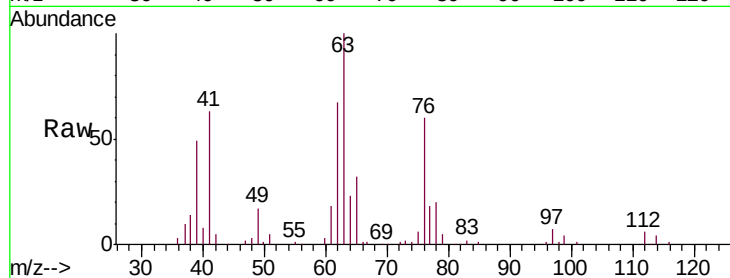
VSTD05076

Tgt Ion: 63 Resp: 61446

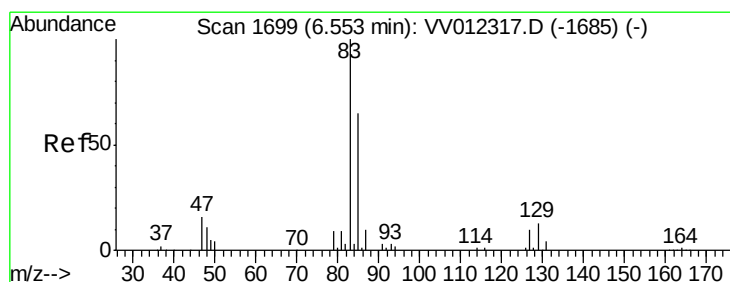
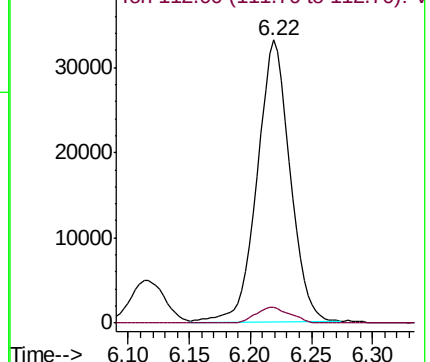
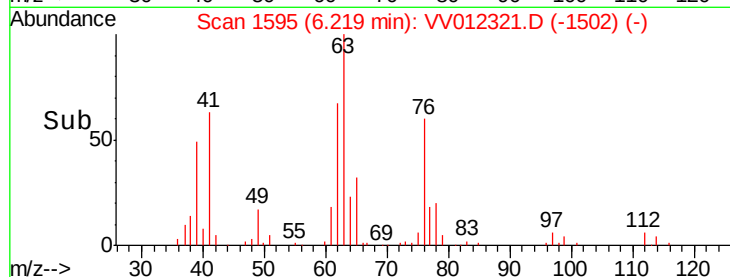
Ion Ratio Lower Upper

63 100

112 5.8 4.7 7.1



Abundance Ion 63.00 (62.70 to 63.70): VV012321.D (-1502) (-)



#38

Bromodichloromethane

Concen: 48.061 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

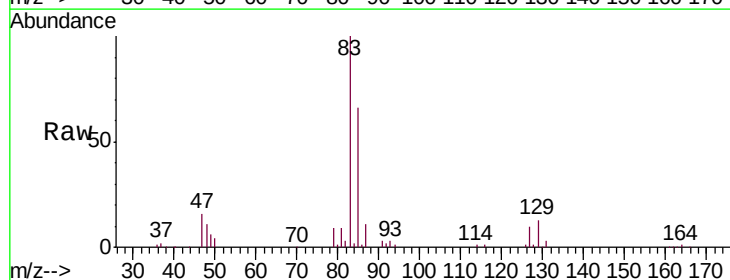
Tgt Ion: 83 Resp: 109506

Ion Ratio Lower Upper

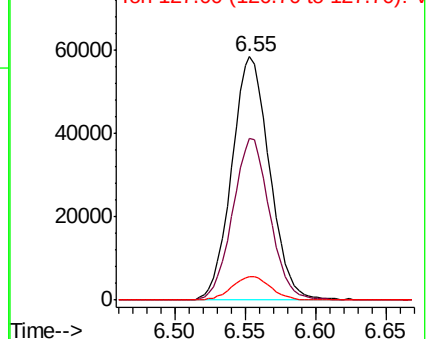
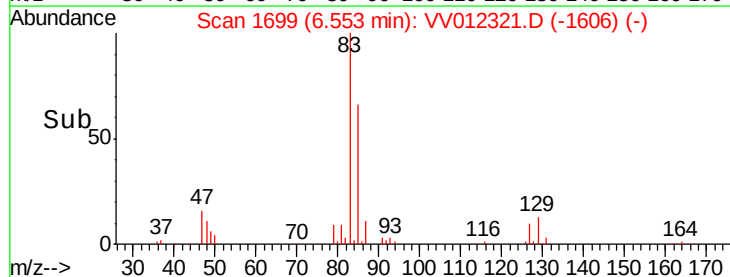
83 100

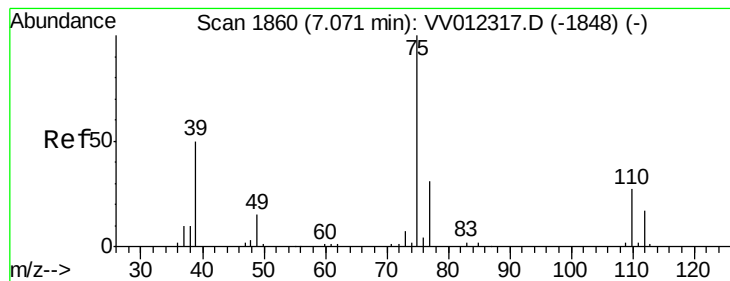
85 66.3 45.7 84.9

127 9.7 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VV012321.D (-1606) (-)





#39

cis-1,3-Dichloropropene

Concen: 47.986 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

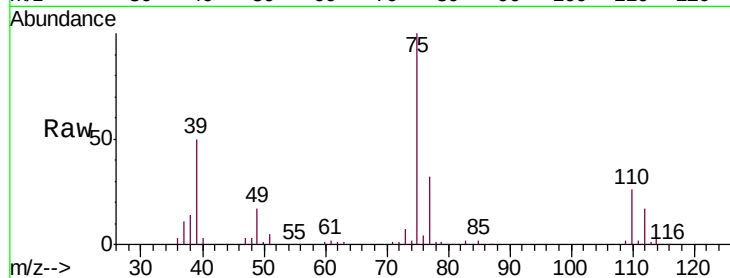
VSTD05076

Tgt Ion: 75 Resp: 115961

Ion Ratio Lower Upper

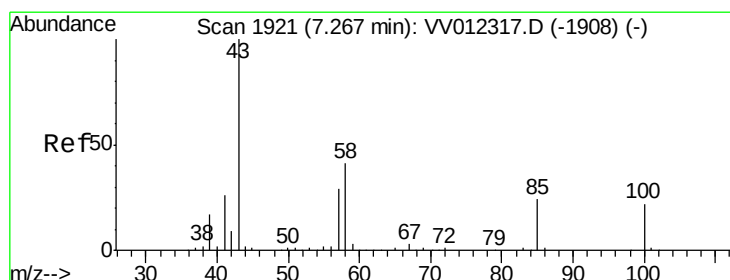
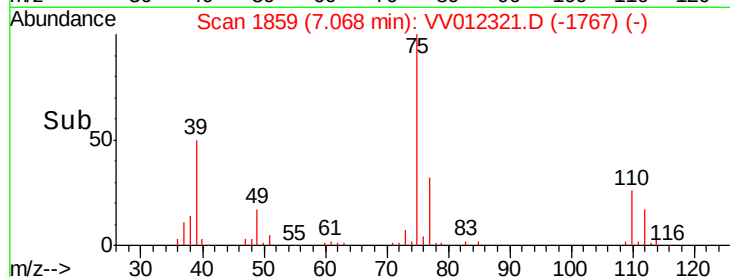
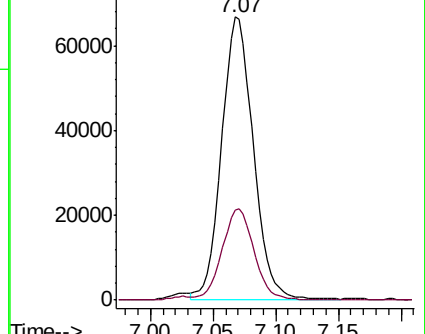
75 100

77 31.9 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#40

4-Methyl-2-pentanone

Concen: 98.336 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

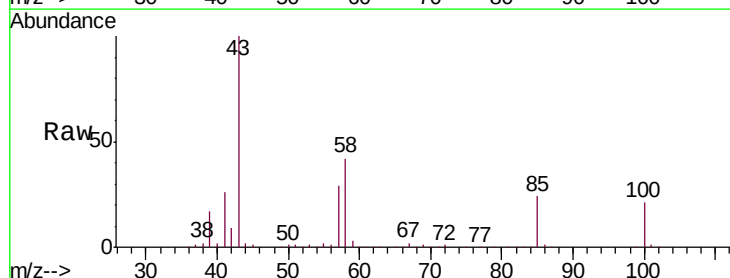
Tgt Ion: 43 Resp: 172117

Ion Ratio Lower Upper

43 100

58 41.9 33.7 50.5

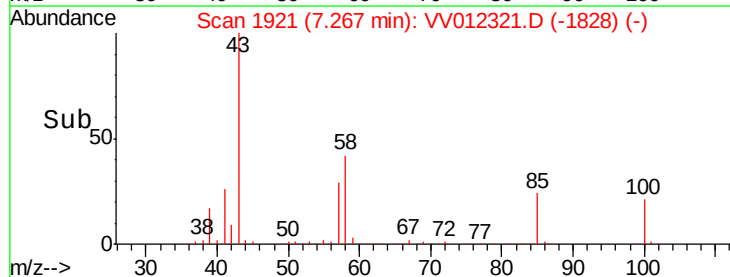
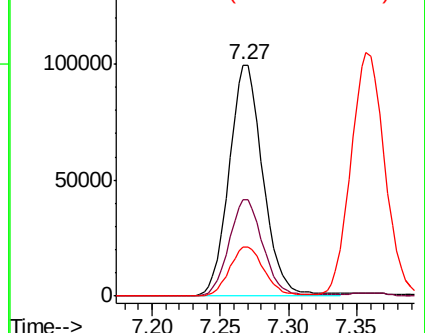
100 21.6 17.8 26.6

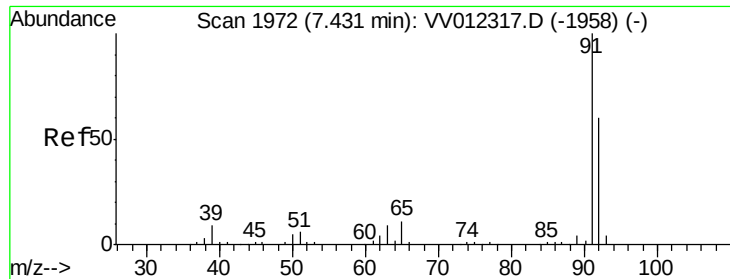


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#42

Toluene

Concen: 47.736 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

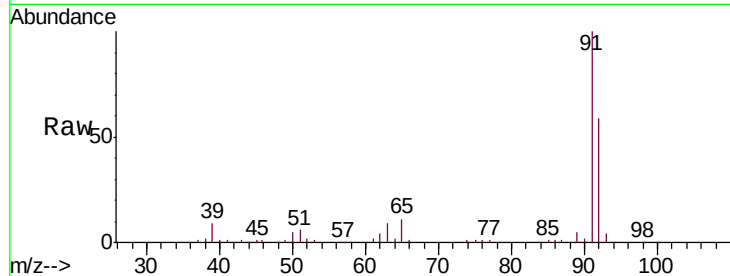
VSTD05076

Tgt Ion: 91 Resp: 309204

Ion Ratio Lower Upper

91 100

92 59.5 42.4 78.6



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

200000

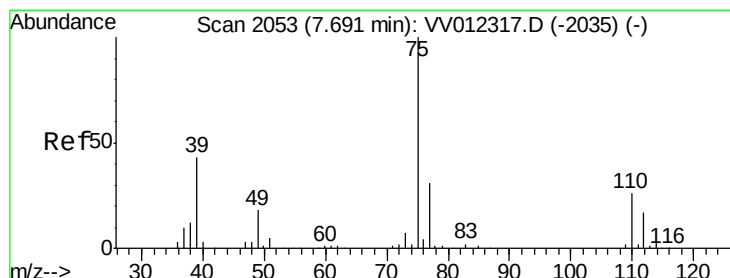
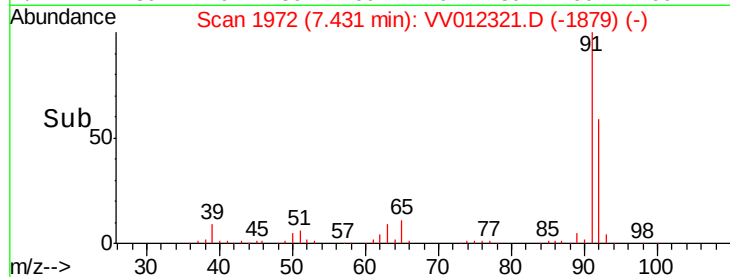
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.893 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012321.D

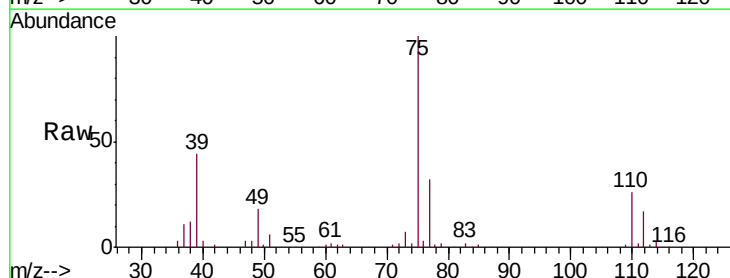
Acq: 21 Aug 2019 18:18

Tgt Ion: 75 Resp: 112609

Ion Ratio Lower Upper

75 100

77 31.9 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.69

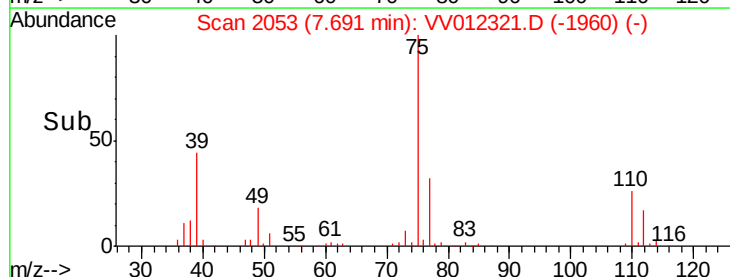
60000

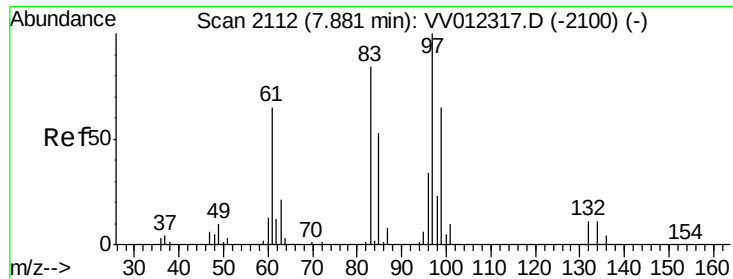
40000

20000

0

Time-->

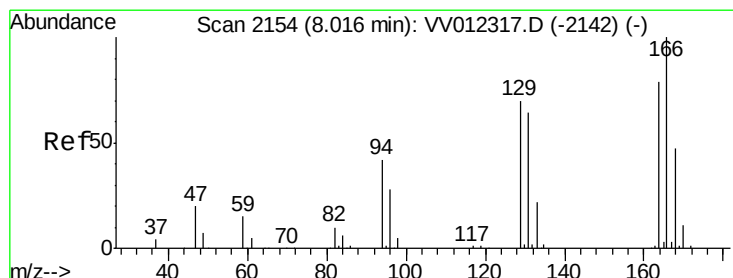
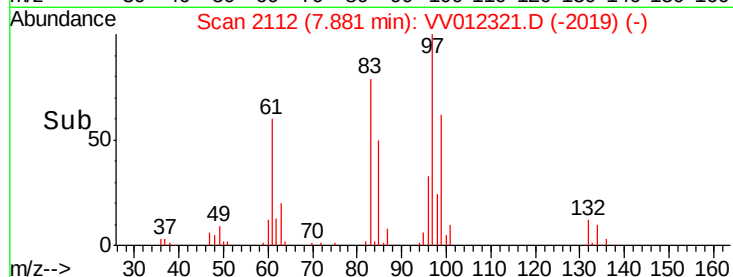
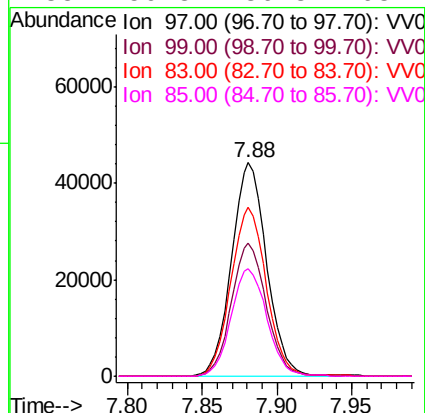
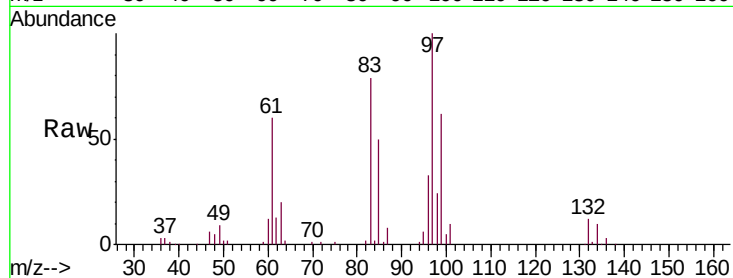




#45
 1,1,2-Trichloroethane
 Concen: 48.048 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV012321.D
 Acq: 21 Aug 2019 18:18

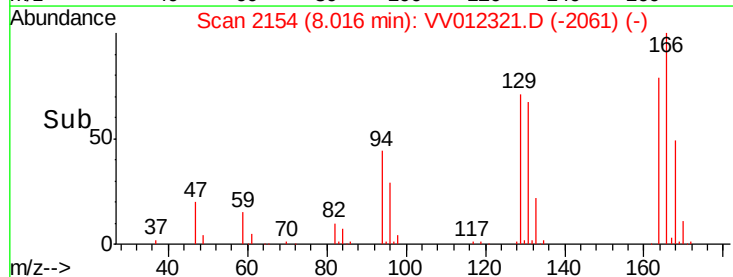
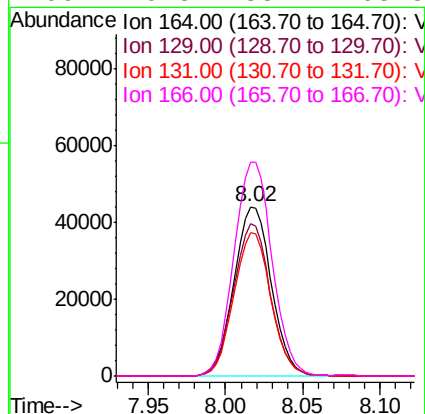
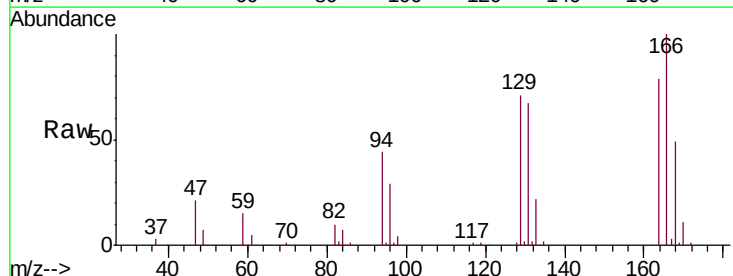
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05076

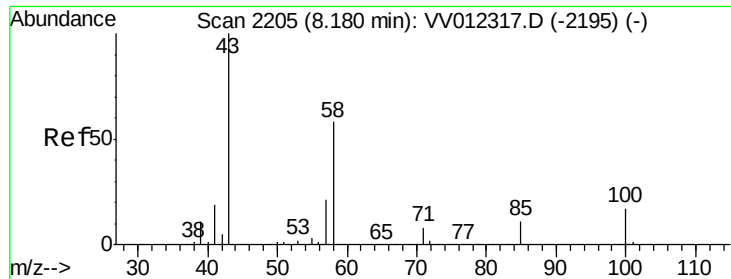
Tgt Ion:	97	Resp:	72307
Ion	Ratio	Lower	Upper
97	100		
99	62.5	45.5	84.5
83	79.1	58.5	108.7
85	50.3	36.8	68.4



#46
 Tetrachloroethene
 Concen: 46.041 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV012321.D
 Acq: 21 Aug 2019 18:18

Tgt Ion:	164	Resp:	74100
Ion	Ratio	Lower	Upper
164	100		
129	89.8	61.5	114.3
131	85.0	56.6	105.0
166	126.3	88.2	163.8

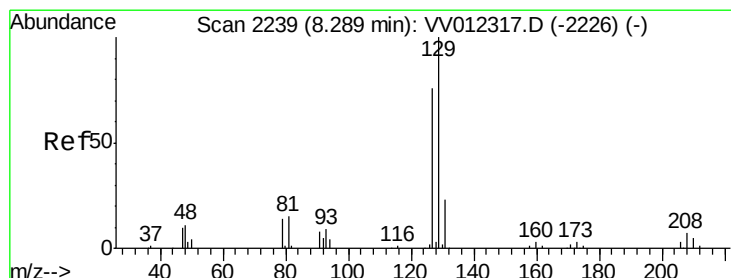
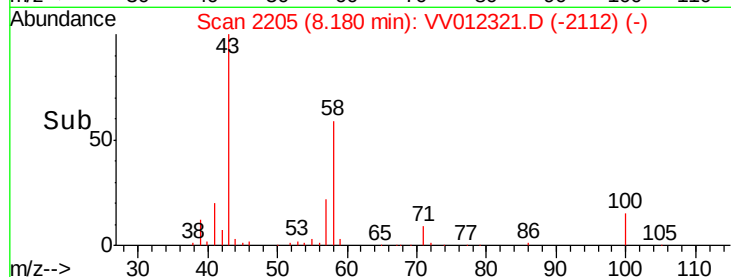
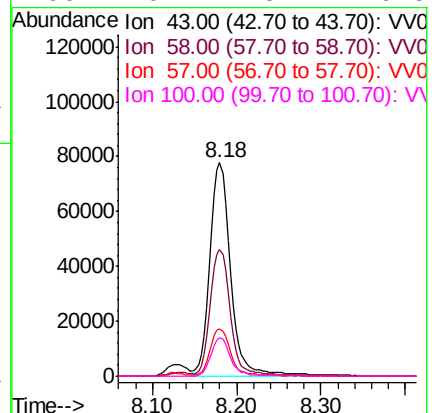
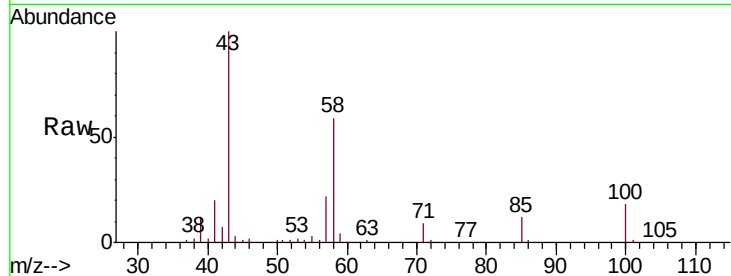




#48
2-Hexanone
Concen: 102.318 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV012321.D
Acq: 21 Aug 2019 18:18

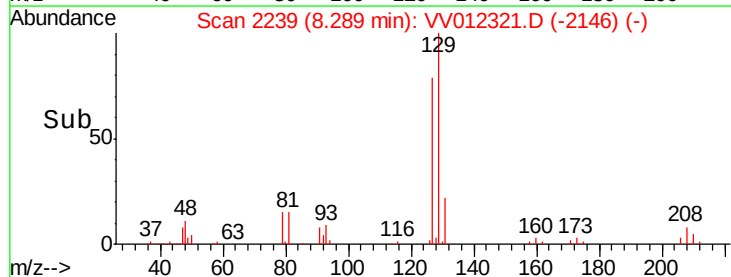
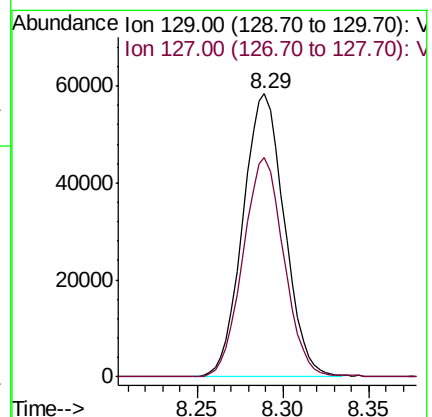
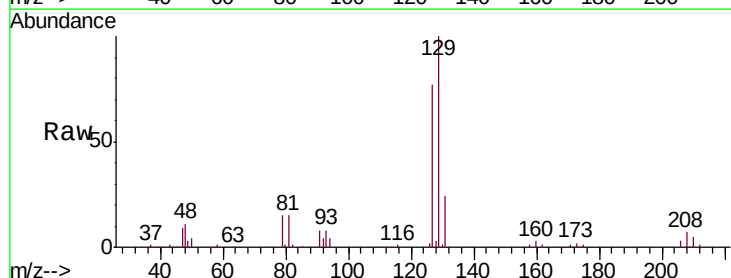
Instrument :
MSVOA_V
ClientSampleId :
VSTD05076

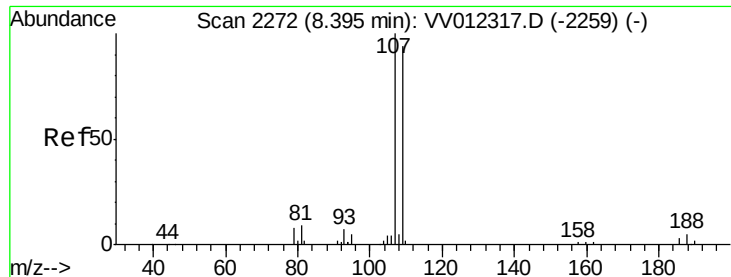
Tgt Ion: 43 Resp: 135202
Ion Ratio Lower Upper
43 100
58 55.4 45.7 68.5
57 20.4 16.8 25.2
100 16.7 13.7 20.5



#49
Dibromochloromethane
Concen: 48.064 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012321.D
Acq: 21 Aug 2019 18:18

Tgt Ion: 129 Resp: 97811
Ion Ratio Lower Upper
129 100
127 77.3 53.5 99.5

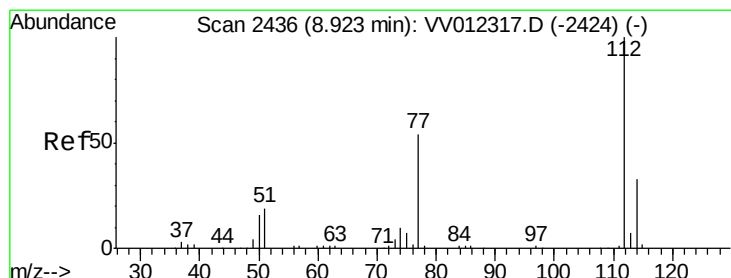
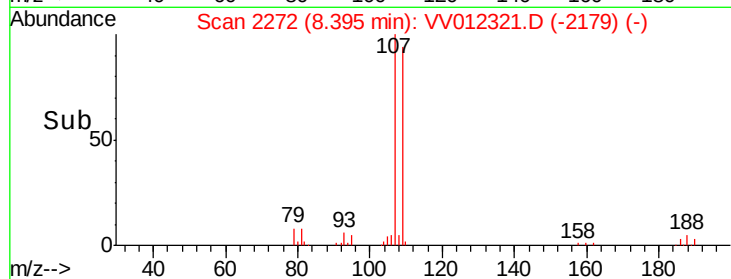
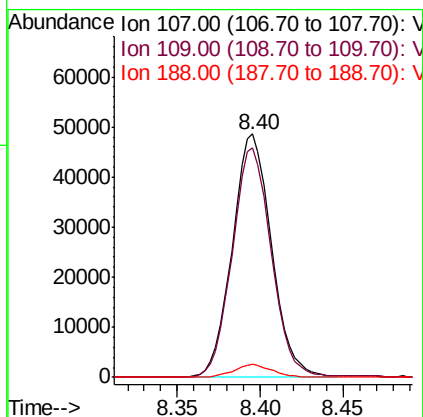
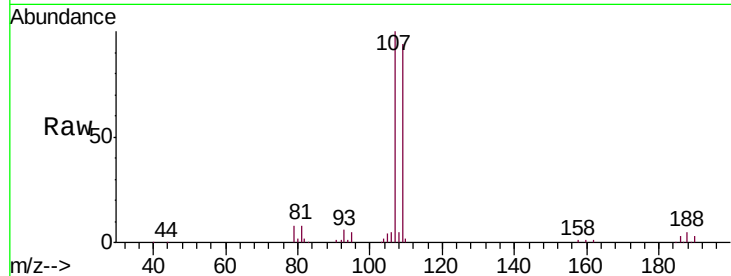




#50
 1,2-Dibromoethane
 Concen: 48.053 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV012321.D
 Acq: 21 Aug 2019 18:18

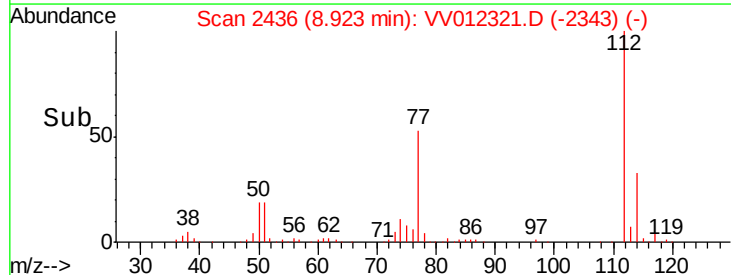
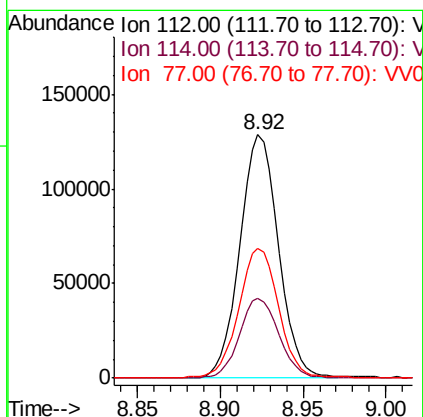
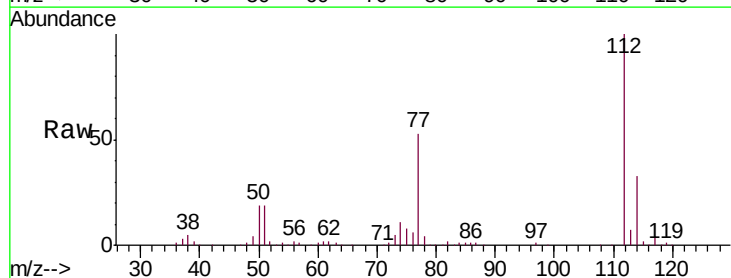
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05076

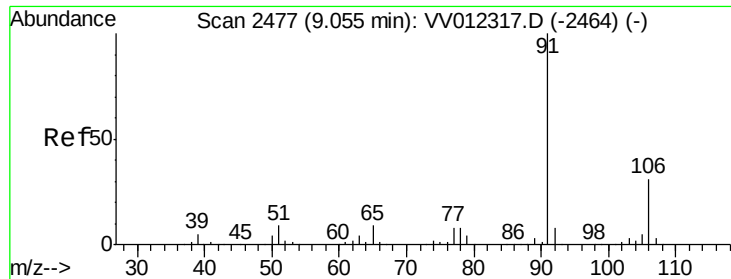
Tgt Ion:107 Resp: 80254
 Ion Ratio Lower Upper
 107 100
 109 94.5 65.7 121.9
 188 5.3 3.9 5.9



#51
 Chlorobenzene
 Concen: 46.550 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV012321.D
 Acq: 21 Aug 2019 18:18

Tgt Ion:112 Resp: 208735
 Ion Ratio Lower Upper
 112 100
 114 32.9 23.4 43.6
 77 53.5 43.8 65.6





#52

Ethylbenzene

Concen: 47.422 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

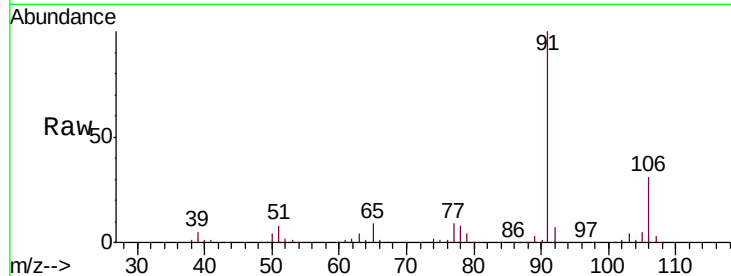
VSTD05076

Tgt Ion: 91 Resp: 355016

Ion Ratio Lower Upper

91 100

106 30.7 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VV012321.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV012321.D (-2464) (-)

9.05

250000

200000

150000

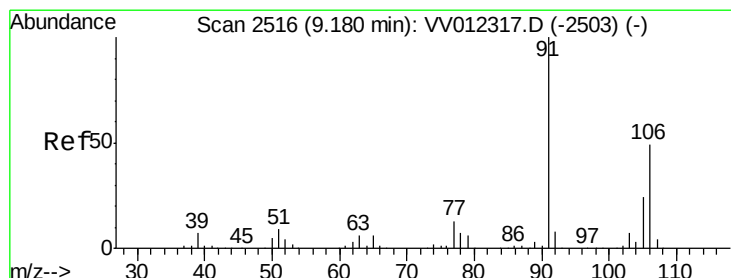
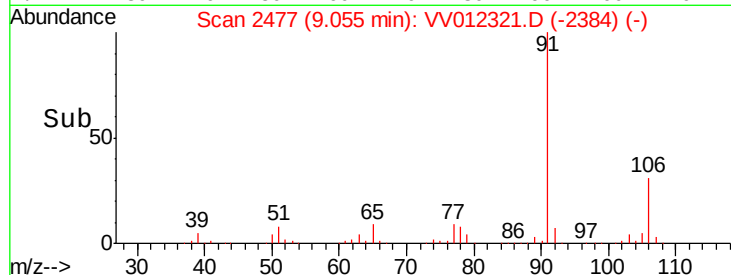
100000

50000

0

8.95 9.00 9.05 9.10 9.15

Time-->



#53

m,p-Xylene

Concen: 47.357 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012321.D

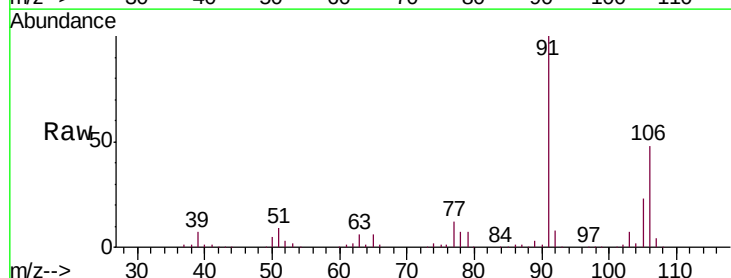
Acq: 21 Aug 2019 18:18

Tgt Ion: 106 Resp: 137593

Ion Ratio Lower Upper

106 100

91 206.8 143.5 266.5



Abundance Ion 106.00 (105.70 to 106.70): VV012321.D (-2503) (-)

Ion 91.00 (90.70 to 91.70): VV012321.D (-2503) (-)

9.18

200000

150000

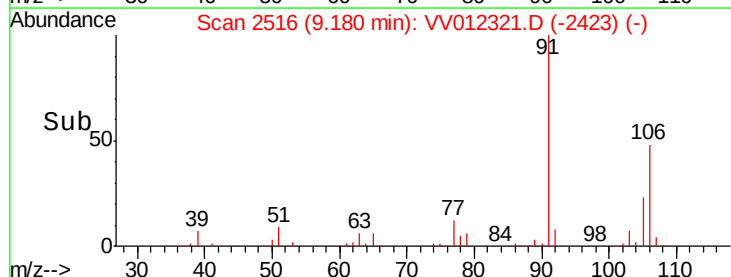
100000

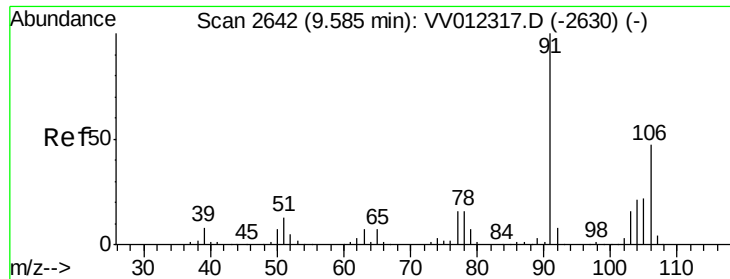
50000

0

9.10 9.15 9.20 9.25

Time-->





#54

o-xylene

Concen: 48.285 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

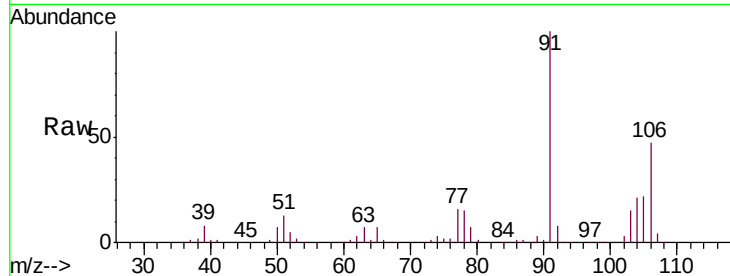
VSTD05076

Tgt Ion:106 Resp: 137700

Ion Ratio Lower Upper

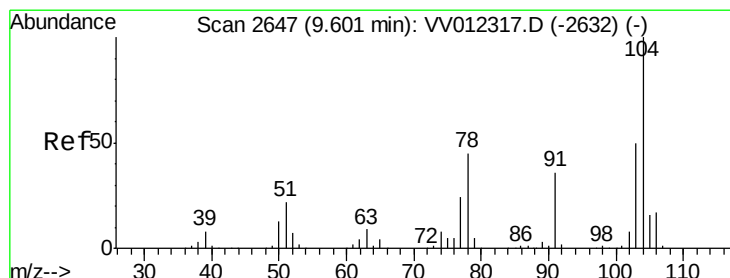
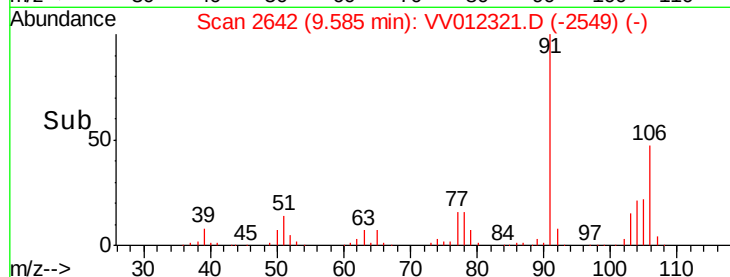
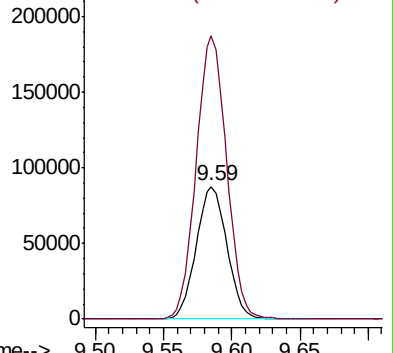
106 100

91 213.6 149.2 277.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 48.170 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012321.D

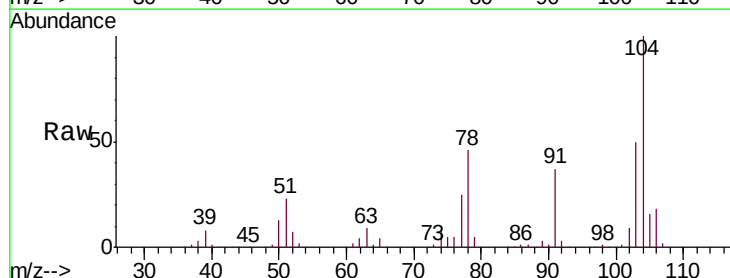
Acq: 21 Aug 2019 18:18

Tgt Ion:104 Resp: 230035

Ion Ratio Lower Upper

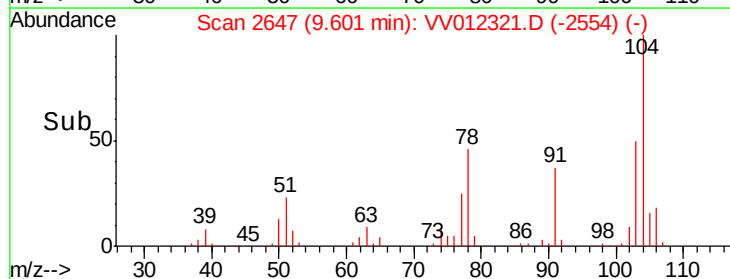
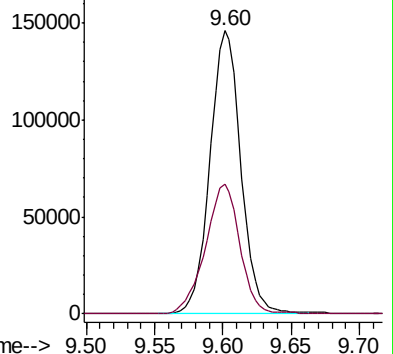
104 100

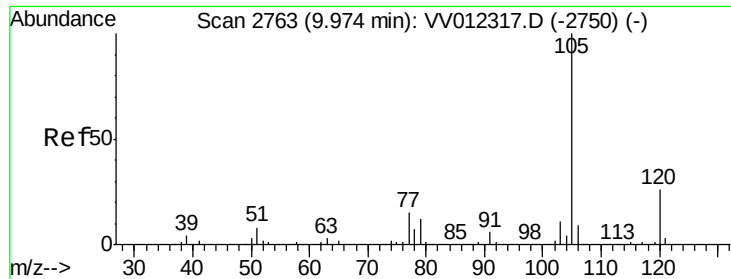
78 45.9 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 47.774 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

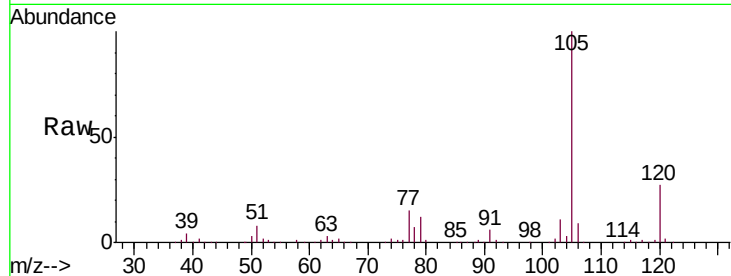
Tgt Ion: 105 Resp: 369111

Ion Ratio Lower Upper

105 100

120 26.8 21.2 31.8

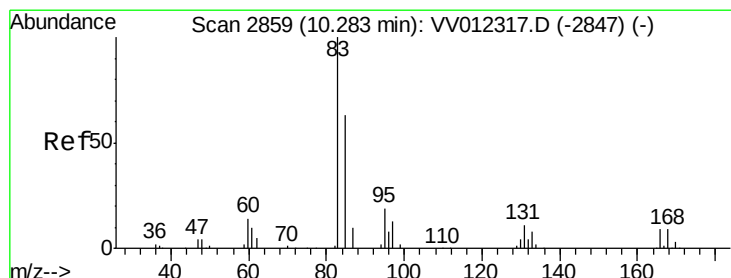
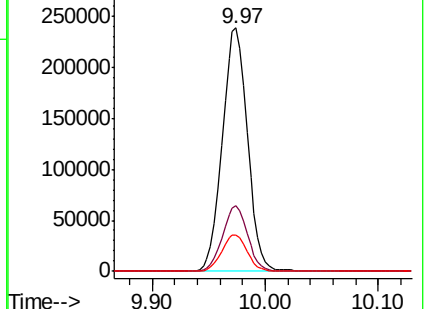
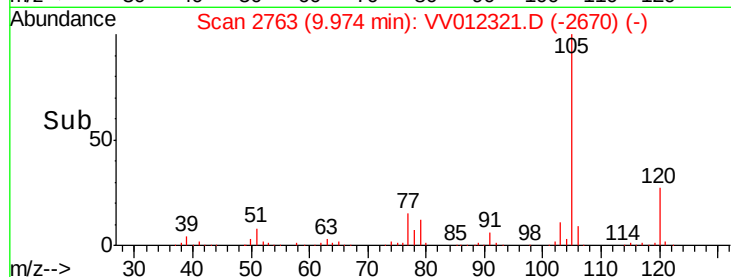
77 15.1 12.2 18.2



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: 47.534 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

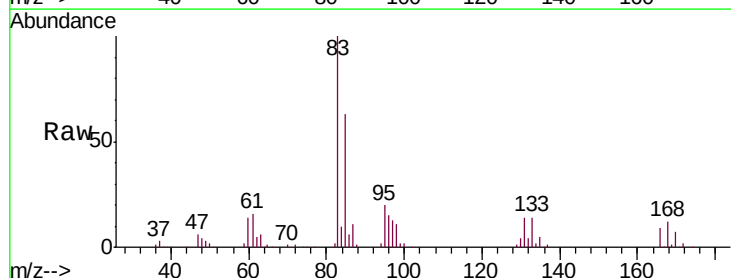
Tgt Ion: 83 Resp: 103946

Ion Ratio Lower Upper

83 100

85 63.3 44.6 82.8

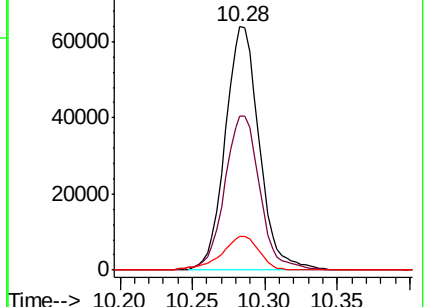
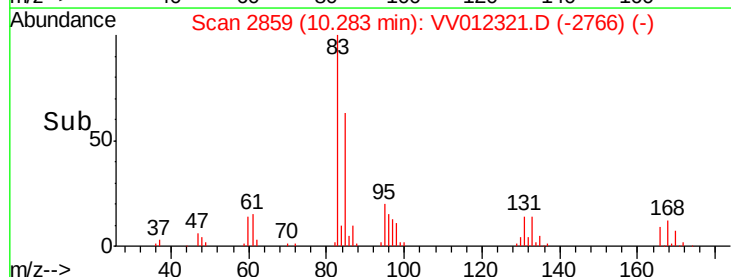
131 14.0 9.7 14.5

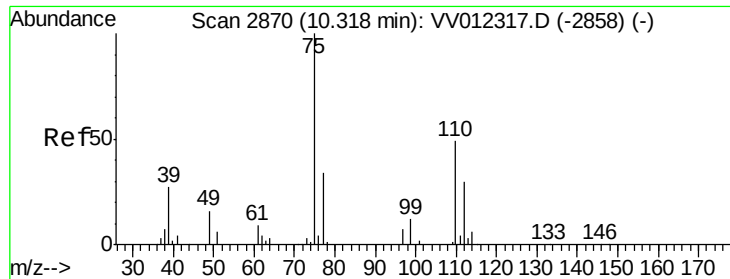


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.285 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

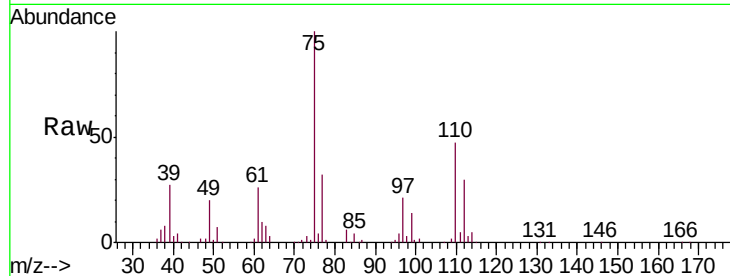
VSTD05076

Tgt Ion: 75 Resp: 87713

Ion Ratio Lower Upper

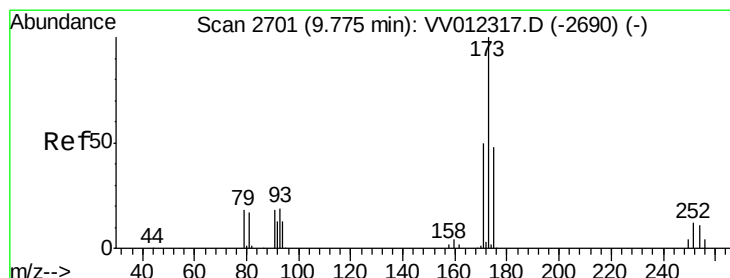
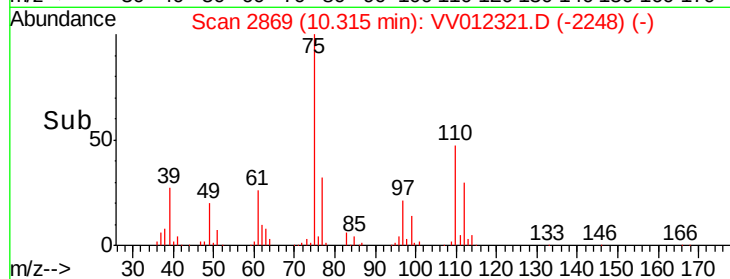
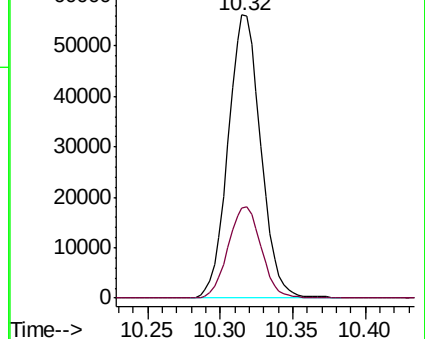
75 100

77 32.8 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV012317.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV012317.D (-2858) (-)



#61

Bromoform

Concen: 47.272 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

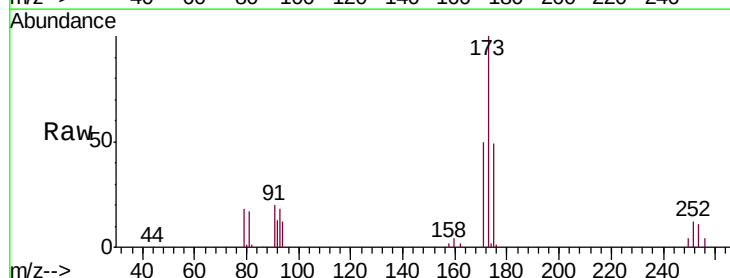
Tgt Ion: 173 Resp: 76589

Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.4

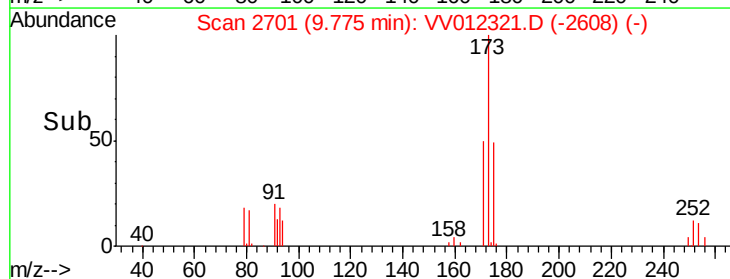
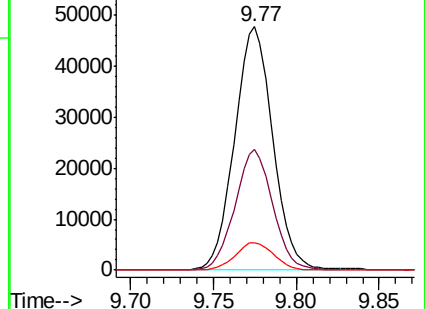
254 11.3 9.3 13.9

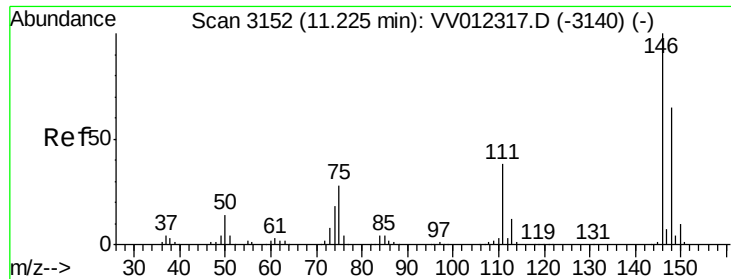


Abundance Ion 173.00 (172.70 to 173.70): VV012317.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV012317.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV012317.D (-2690) (-)





#62

1,3-Dichlorobenzene

Concen: 47.037 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

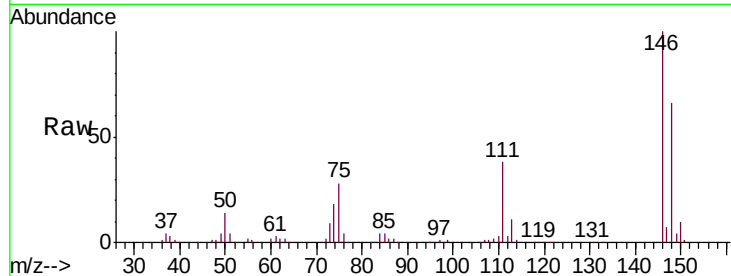
Tgt Ion:146 Resp: 179730

Ion Ratio Lower Upper

146 100

111 38.2 26.7 49.7

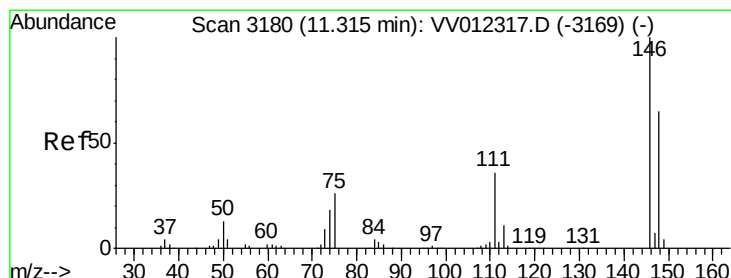
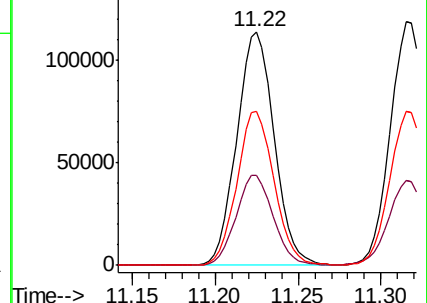
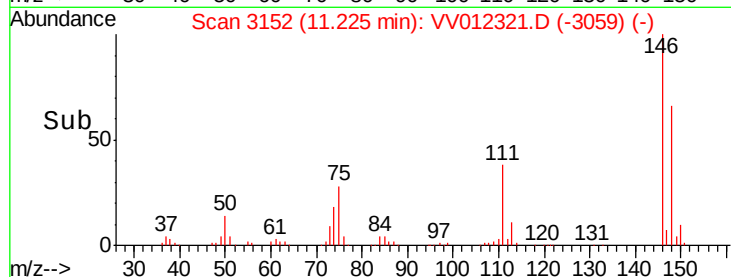
148 66.1 45.8 85.0



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: 47.301 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

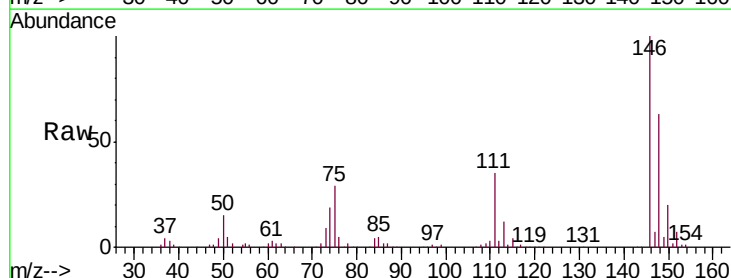
Tgt Ion:146 Resp: 182386

Ion Ratio Lower Upper

146 100

111 34.9 25.8 47.8

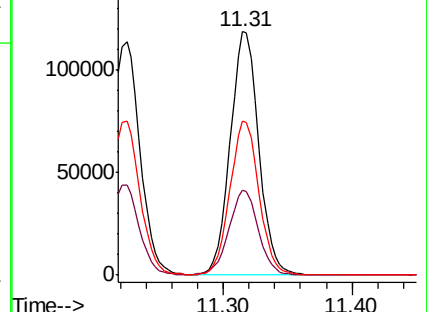
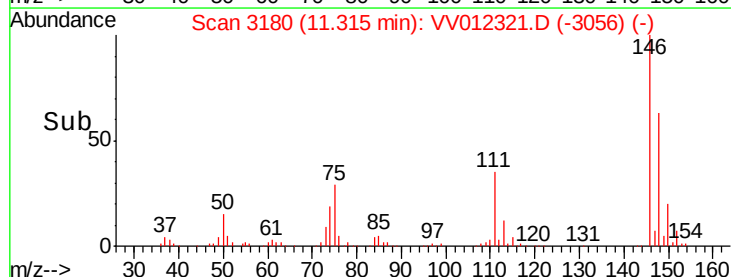
148 63.3 45.4 84.4

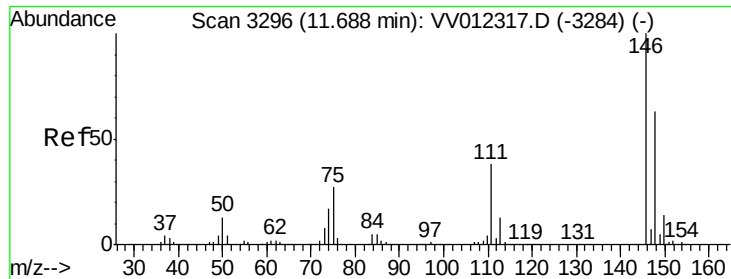


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

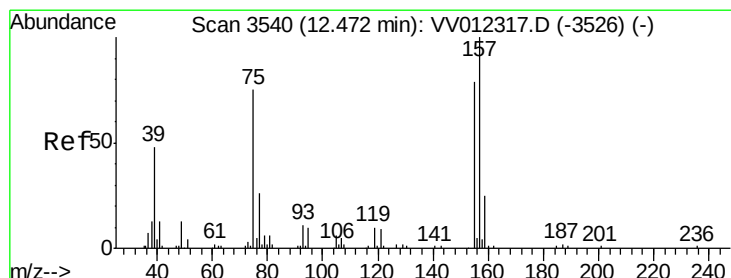
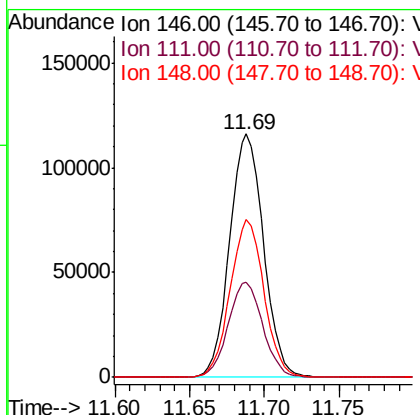
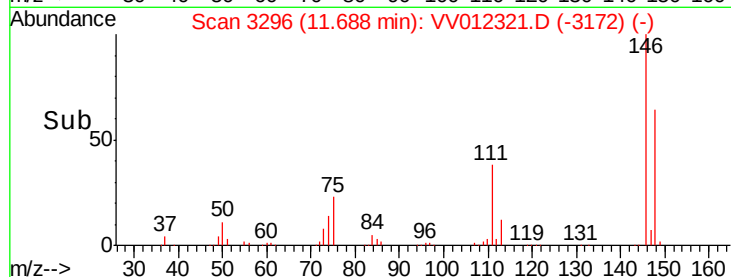
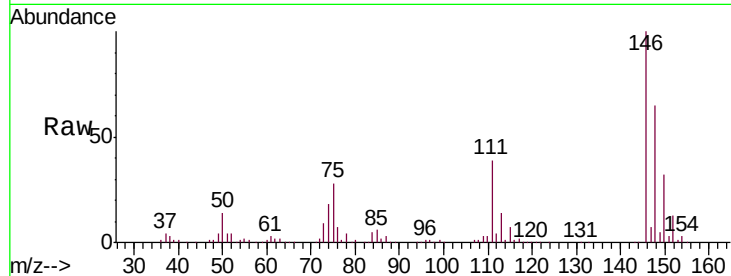




#65
 1,2-Dichlorobenzene
 Concen: 47.428 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012321.D
 Acq: 21 Aug 2019 18:18

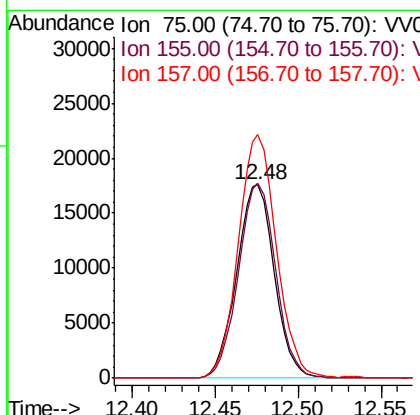
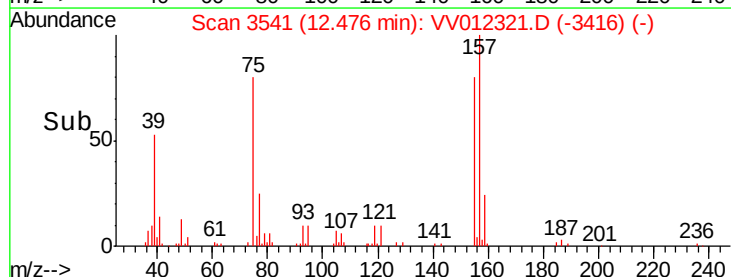
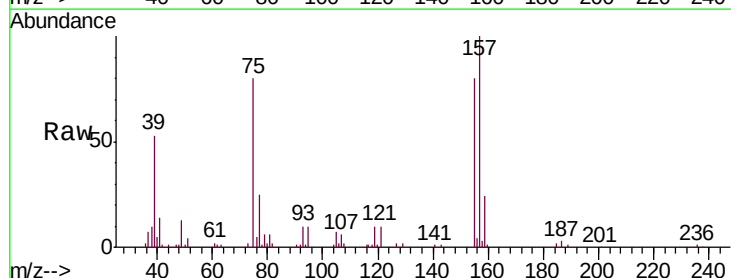
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05076

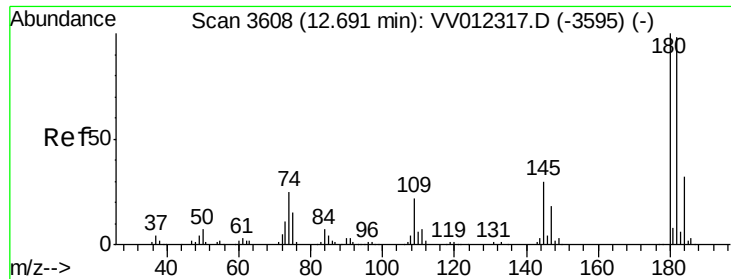
Tgt Ion: 146 Resp: 183383
 Ion Ratio Lower Upper
 146 100
 111 39.2 30.5 45.7
 148 64.6 50.4 75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.298 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV012321.D
 Acq: 21 Aug 2019 18:18

Tgt Ion: 75 Resp: 27730
 Ion Ratio Lower Upper
 75 100
 155 100.9 83.6 125.4
 157 125.8 106.1 159.1

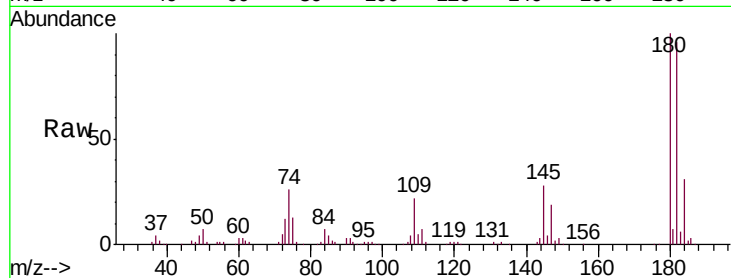




#67
 1,3,5-Trichlorobenzene
 Concen: 48.339 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012321.D
 Acq: 21 Aug 2019 18:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05076

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.6	116.4
184	30.4	24.9	37.3
145	27.7	23.3	34.9



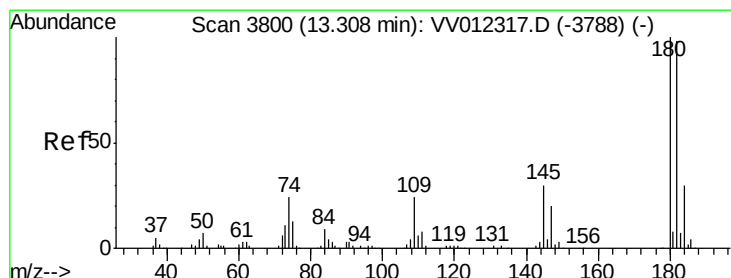
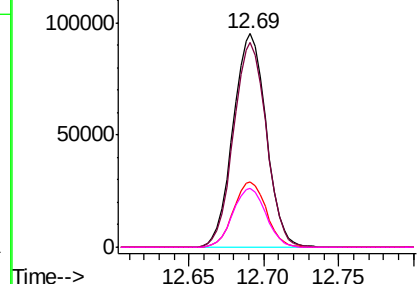
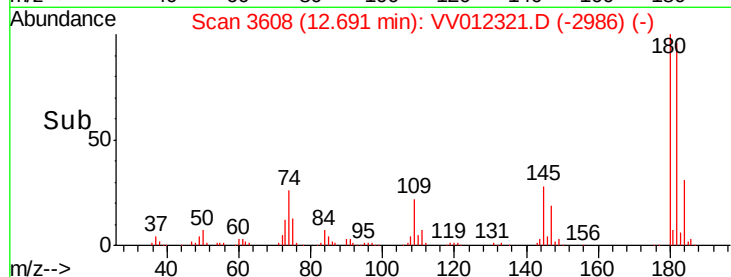
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

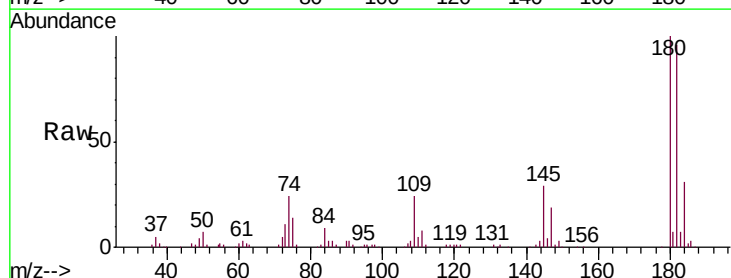
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 50.314 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV012321.D
 Acq: 21 Aug 2019 18:18

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.7	115.1
145	29.4	23.4	35.2

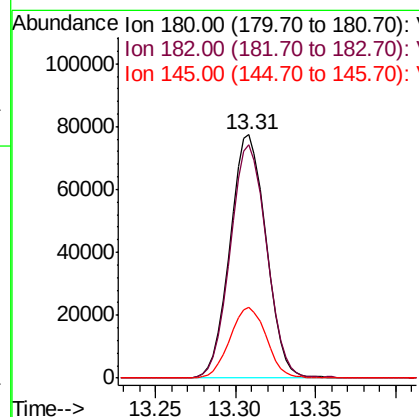
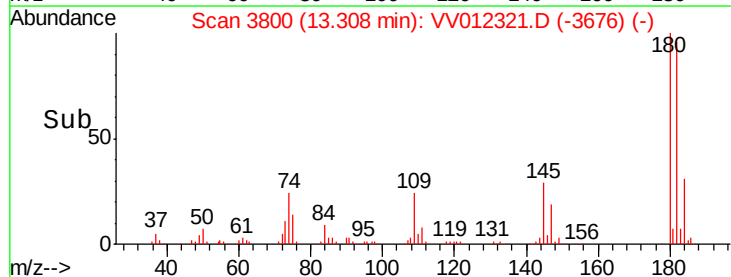


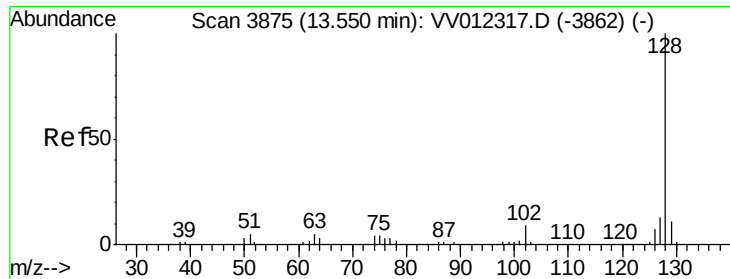
Abundance

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: 52.372 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

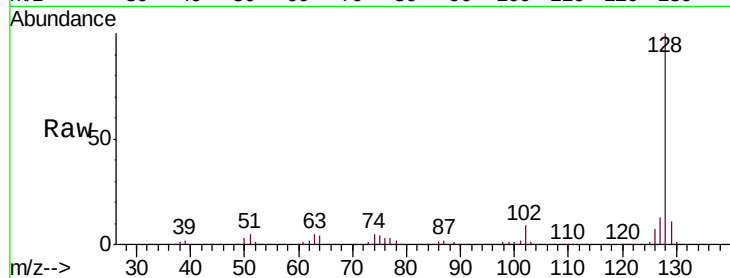
Tgt Ion:128 Resp: 333419

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

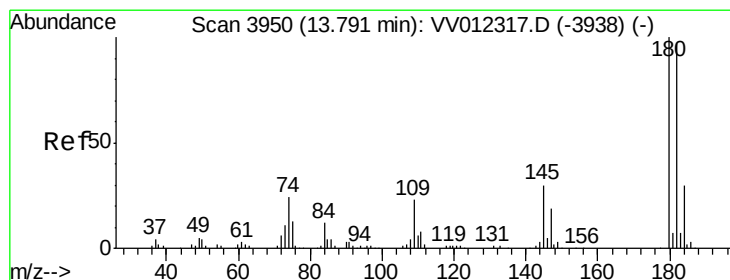
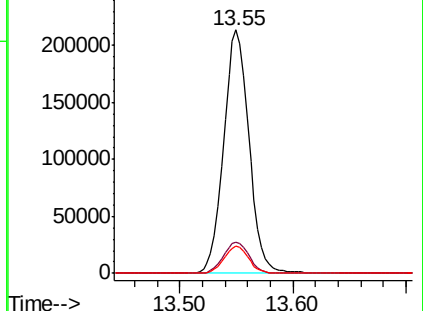
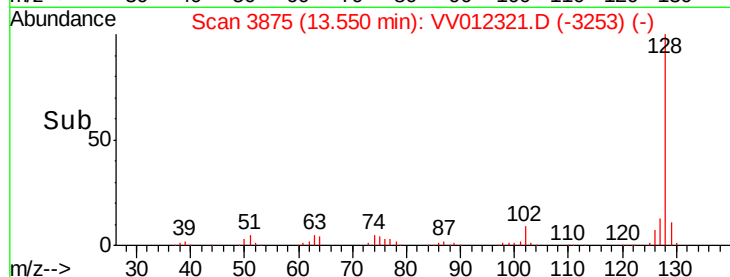
129 10.8 8.8 13.2



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: 51.043 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012321.D

Acq: 21 Aug 2019 18:18

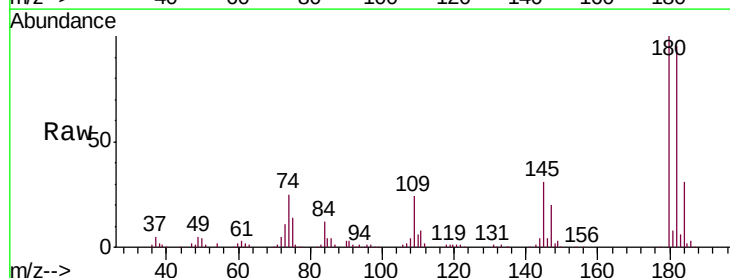
Tgt Ion:180 Resp: 123845

Ion Ratio Lower Upper

180 100

182 96.5 76.5 114.7

145 30.5 24.5 36.7



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

