

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070620\
 Data File : VV017363.D
 Acq On : 06 Jul 2020 20:04
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Quant Time: Jul 07 01:21:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jul 07 01:14:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	163479	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	160142	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	86403	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	40226	4.10	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.00%
7) Chloroethane-d5	1.58	69	33024	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.12	63	85688	4.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.80%
20) 2-Butanone-d5	3.96	46	97473	38.98	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	77.96%
24) Chloroform-d	4.38	84	98599	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	5.06	65	54963	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
32) Benzene-d6	5.07	84	174970	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.20%
36) 1,2-Dichloropropane-d6	6.09	67	50010	4.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.40%
41) Toluene-d8	7.34	98	169004	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.80%
45) trans-1,3-Dichloropropene-	7.64	79	22410	4.33	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.60%
48) 2-Hexanone-d5	8.12	63	75122	38.06	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	76.12%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	37222	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	67368	4.22	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	57634	4.416	ug/L 97
3) Chloromethane	1.25	50	41909	3.790	ug/L 99
5) Vinyl chloride	1.32	62	47171	4.397	ug/L 100
6) Bromomethane	1.53	94	23220	3.714	ug/L 96
8) Chloroethane	1.60	64	30045	5.068	ug/L 99
9) Trichlorofluoromethane	1.77	101	95347	5.489	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	45241	5.225	ug/L 98
12) 1,1-Dichloroethene	2.13	96	40038	5.103	ug/L 93
13) Acetone	2.23	43	19197	15.187	ug/L 98
14) Carbon disulfide	2.31	76	102268	4.350	ug/L 99
15) Methyl Acetate	2.47	43	14209	4.598	ug/L 93
16) Methylene chloride	2.52	84	42241	5.027	ug/L 92
17) Methyl tert-butyl Ether	2.79	73	104723	5.316	ug/L 98
18) trans-1,2-Dichloroethene	2.78	96	42289	5.086	ug/L 99
19) 1,1-Dichloroethane	3.21	63	91935	4.921	ug/L 97
21) 2-Butanone	4.04	43	102344	42.950	ug/L 99
22) cis-1,2-Dichloroethene	3.94	96	51624	4.541	ug/L 94

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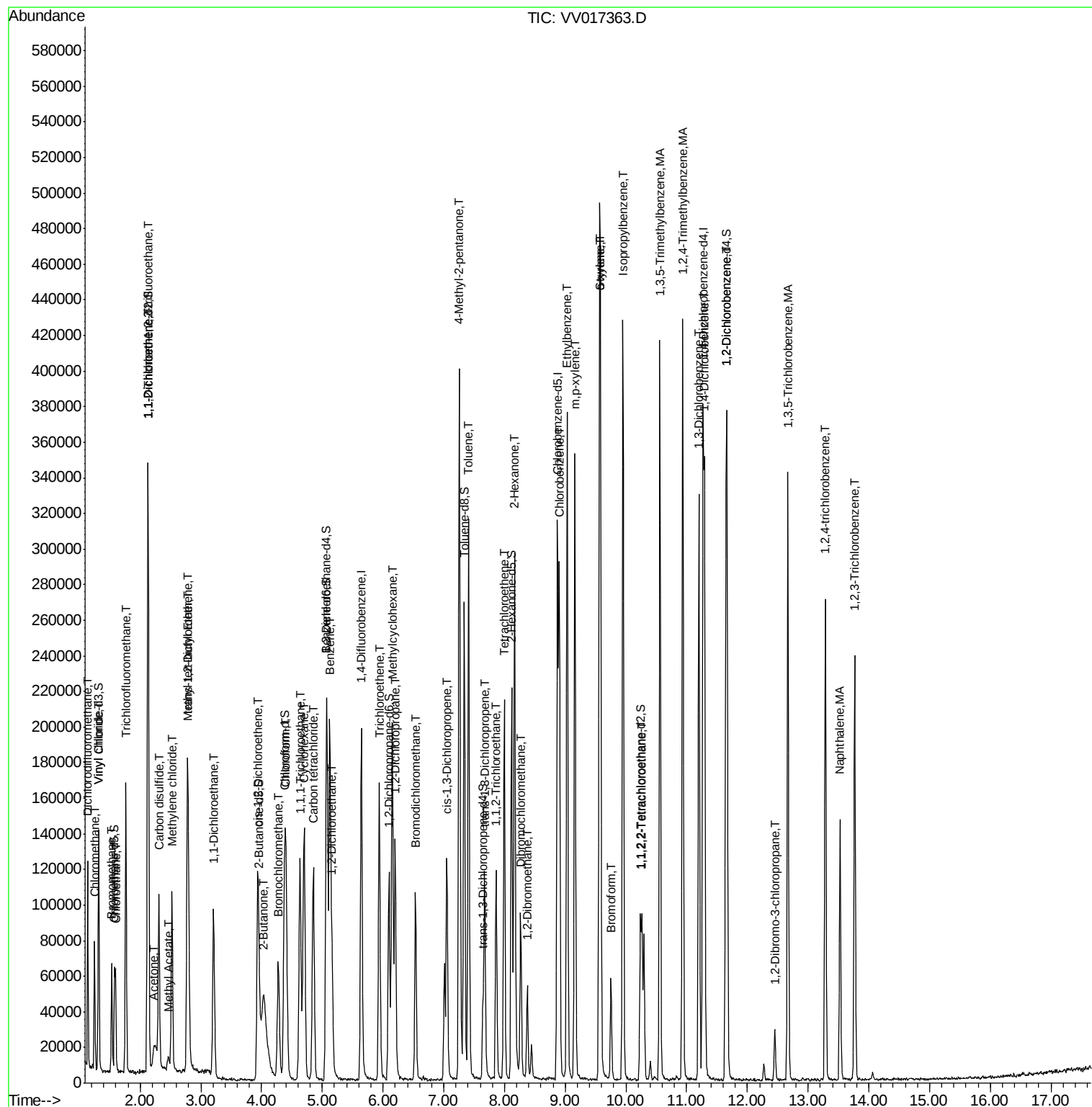
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	23617	4.888	ug/L	91
25) Chloroform	4.41	83	103248	5.060	ug/L	96
27) 1,2-Dichloroethane	5.16	62	65125	5.137	ug/L	99
29) 1,1,1-Trichloroethane	4.63	97	98370	5.127	ug/L	98
30) Cyclohexane	4.70	56	70928	3.885	ug/L	96
31) Carbon tetrachloride	4.85	117	88496	5.112	ug/L	98
33) Benzene	5.12	78	194438	4.636	ug/L	100
34) Trichloroethene	5.94	95	55472	4.517	ug/L	95
35) Methylcyclohexane	6.15	83	78385	4.106	ug/L	96
37) 1,2-Dichloropropane	6.20	63	44129	4.251	ug/L	99
38) Bromodichloromethane	6.53	83	68709	4.872	ug/L	96
39) cis-1,3-Dichloropropene	7.05	75	70137	4.547	ug/L	95
40) 4-Methyl-2-pentanone	7.25	43	264844	44.184	ug/L	99
42) Toluene	7.41	91	218700	4.485	ug/L	97
43) 1,3,5-Trimethylbenzene	10.56	105	212066	4.864	ug/L	99
44) 1,2,4-Trimethylbenzene	10.94	105	220578	4.968	ug/L	99
46) trans-1,3-Dichloropropene	7.67	75	62222	4.664	ug/L	97
47) 1,1,2-Trichloroethane	7.86	97	35404	4.808	ug/L	96
49) Tetrachloroethene	8.00	164	46661	4.721	ug/L	99
50) 2-Hexanone	8.16	43	189289	44.374	ug/L	98
51) Dibromochloromethane	8.27	129	46141	5.170	ug/L	96
52) 1,2-Dibromoethane	8.38	107	32201	4.611	ug/L	96
53) Chlorobenzene	8.90	112	144033	4.739	ug/L	97
54) Ethylbenzene	9.03	91	244718	4.702	ug/L	98
55) m,p-xylene	9.16	106	95909	4.698	ug/L	95
56) o-xylene	9.57	106	91554	4.806	ug/L	100
57) Styrene	9.58	104	161302	5.110	ug/L	100
58) Isopropylbenzene	9.95	105	253284	4.832	ug/L	99
60) 1,1,2,2-Tetrachloroethane	10.26	83	37797	4.963	ug/L	100
62) Bromoform	9.75	173	26002	5.625	ug/L	98
63) 1,3-Dichlorobenzene	11.20	146	126005	4.844	ug/L	98
64) 1,4-Dichlorobenzene	11.30	146	126350	4.779	ug/L	99
66) 1,2-Dichlorobenzene	11.67	146	113760	4.819	ug/L	97
67) 1,2-Dibromo-3-chloropropan	12.45	75	6983	5.348	ug/L	84
68) 1,3,5-Trichlorobenzene	12.67	180	99064	4.740	ug/L	99
69) 1,2,4-trichlorobenzene	13.28	180	81240	4.722	ug/L	98
70) Naphthalene	13.53	128	110938	4.566	ug/L	99
71) 1,2,3-Trichlorobenzene	13.77	180	70031	4.991	ug/L	99

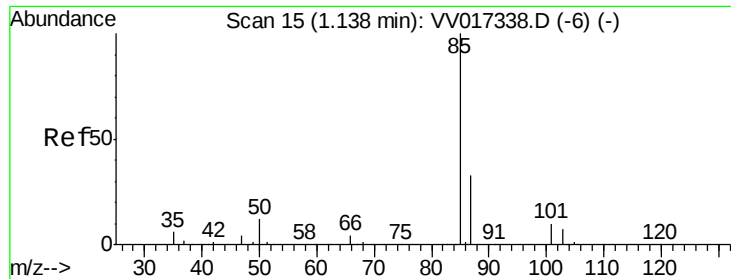
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.416 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

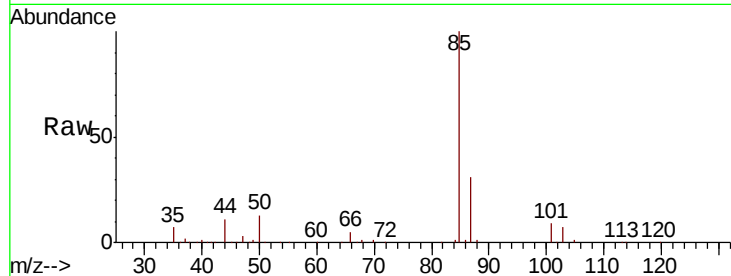
VSTD00548

Tot Ion: 85 Resp: 57634

Ion Ratio Lower Upper

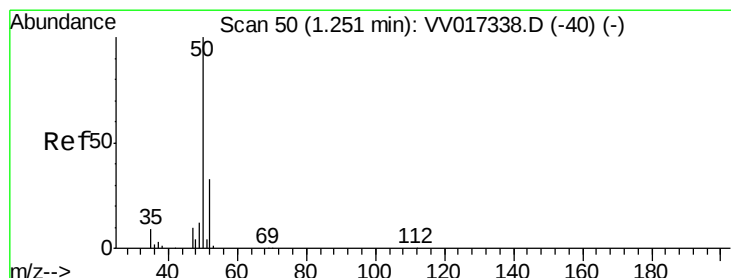
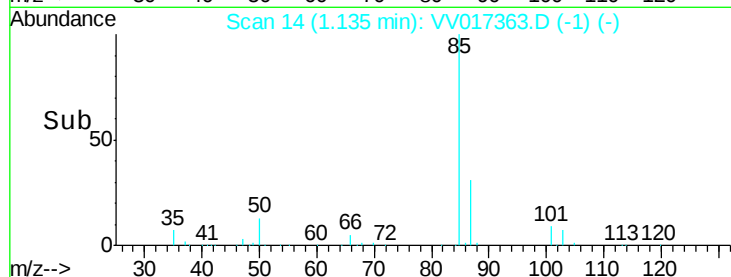
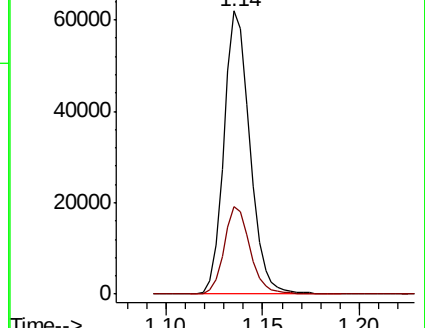
85 100

87 31.1 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV017363.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV017363.D (-6) (-)



#3

Chloromethane

Concen: 3.790 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV017363.D

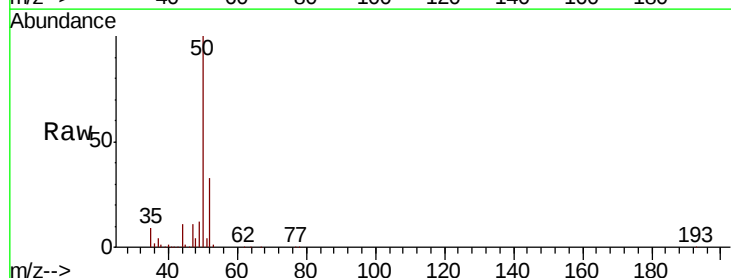
Acq: 06 Jul 2020 20:04

Tgt Ion: 50 Resp: 41909

Ion Ratio Lower Upper

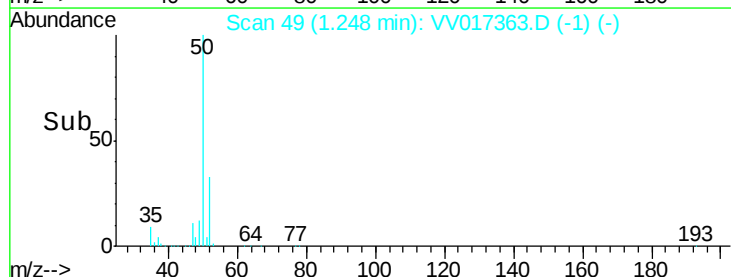
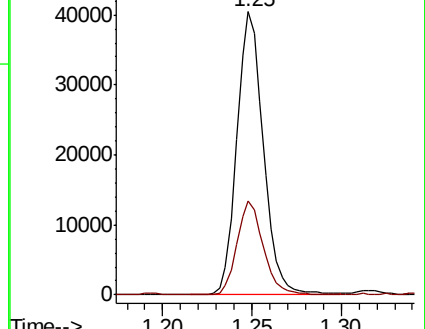
50 100

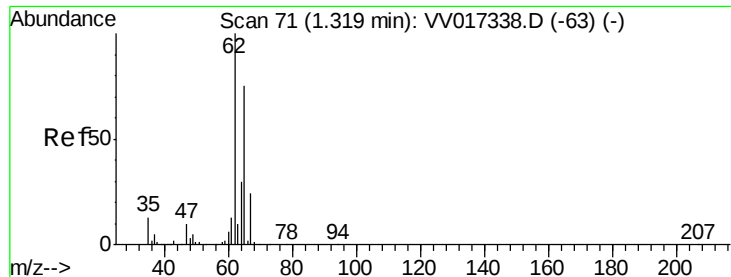
52 33.0 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV017363.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VV017363.D (-1) (-)





#5

Vinyl chloride

Concen: 4.397 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampled :

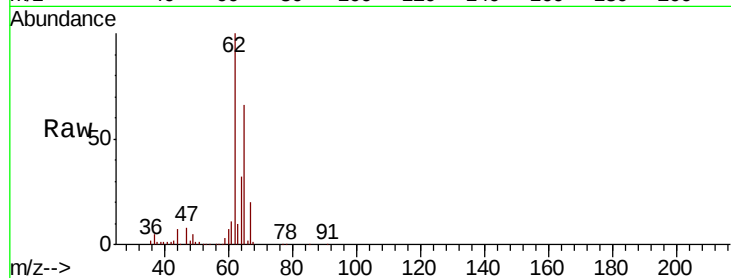
VSTD00548

Tot Ion: 62 Resp: 47171

Ion Ratio Lower Upper

62 100

64 32.3 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

50000

40000

30000

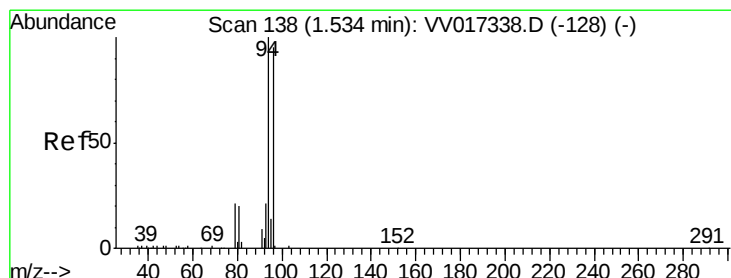
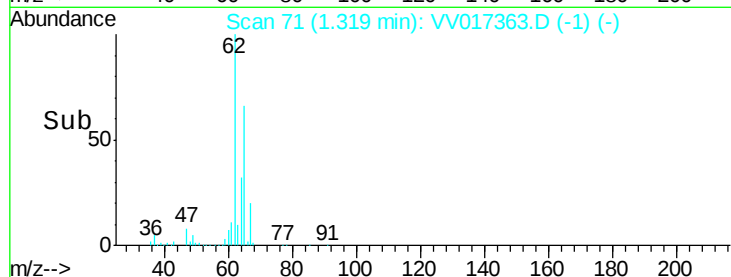
20000

10000

0

Time-->

1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 3.714 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV017363.D

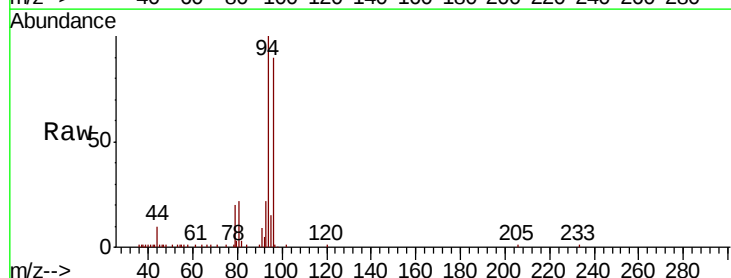
Acq: 06 Jul 2020 20:04

Tgt Ion: 94 Resp: 23220

Ion Ratio Lower Upper

94 100

96 90.4 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

20000

15000

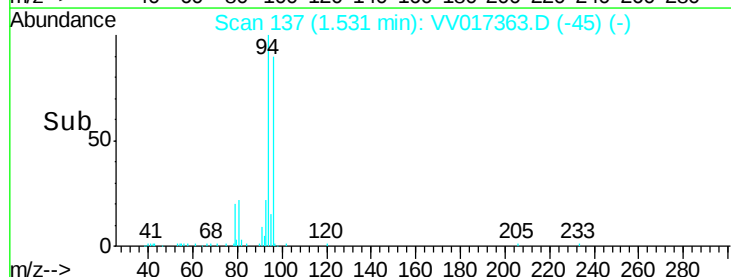
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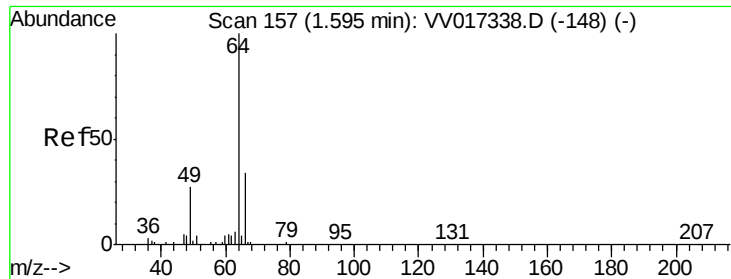
5000

0

Time-->

1.50 1.55 1.60

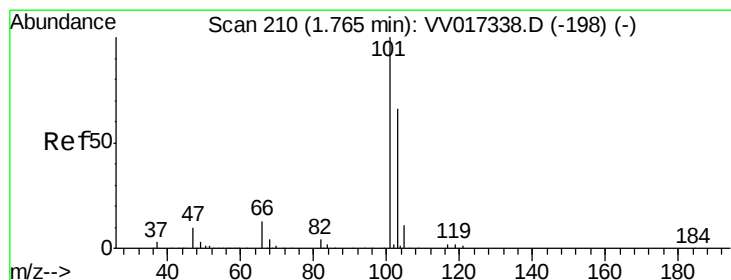
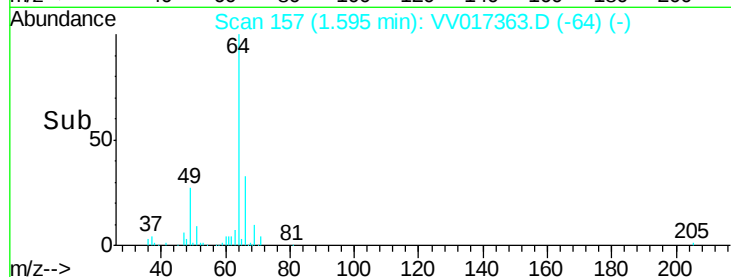
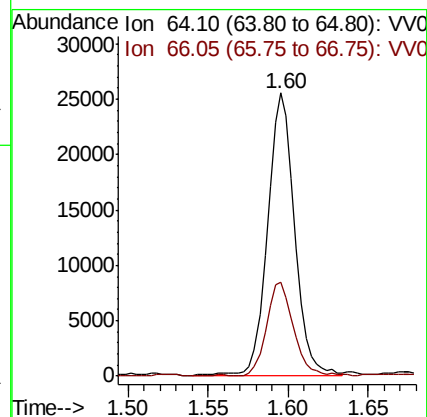
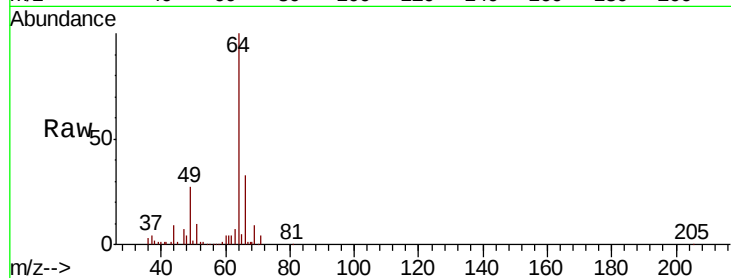




#8
Chloroethane
Concen: 5.068 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV017363.D
Acq: 06 Jul 2020 20:04

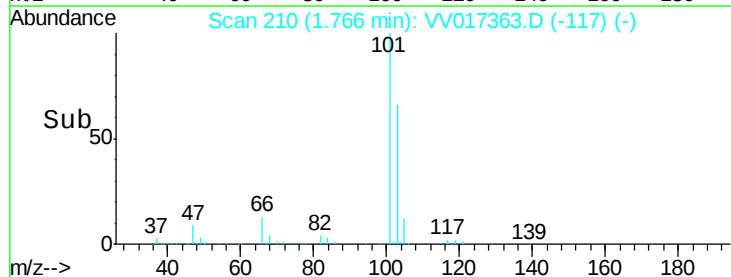
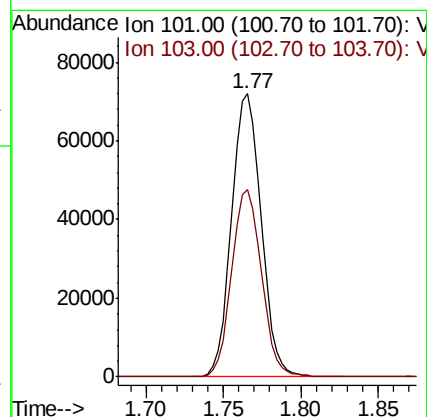
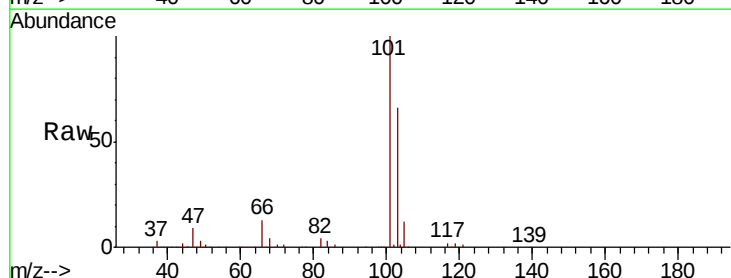
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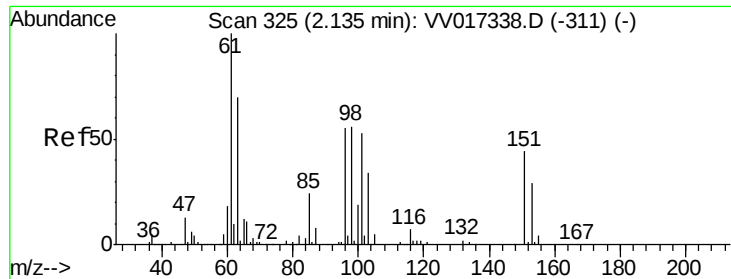
Tot Ion: 64 Resp: 30045
Ion Ratio Lower Upper
64 100
66 33.1 22.8 42.4



#9
Trichlorofluoromethane
Concen: 5.489 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV017363.D
Acq: 06 Jul 2020 20:04

Tgt Ion: 101 Resp: 95347
Ion Ratio Lower Upper
101 100
103 66.8 50.9 76.3





#10

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

Concen: 5.225 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

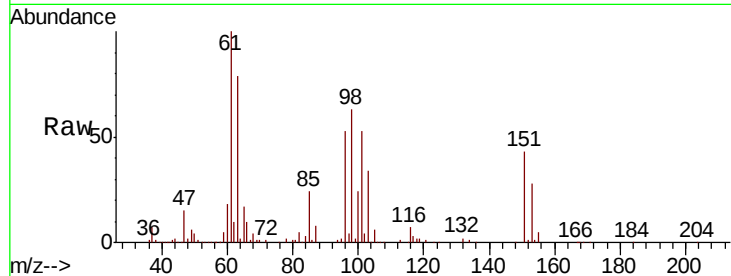
Tot Ion:101 Resp: 45241

Ion Ratio Lower Upper

101 100

85 44.3 35.4 53.2

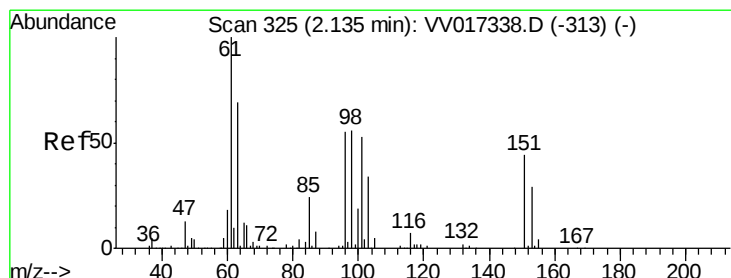
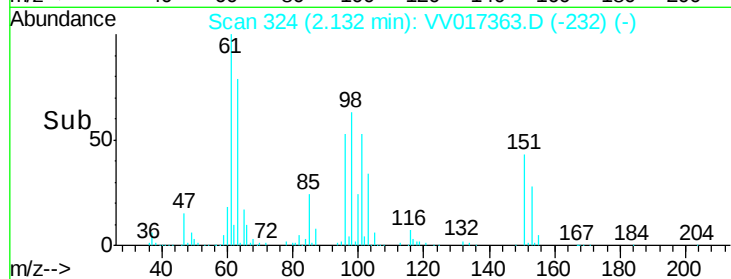
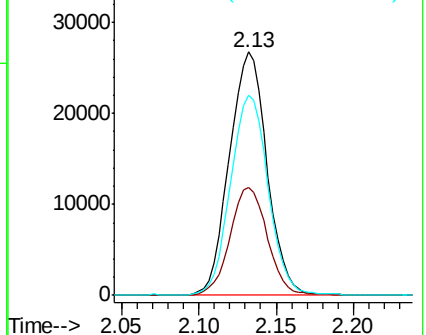
151 82.4 63.9 95.9



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: 5.103 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

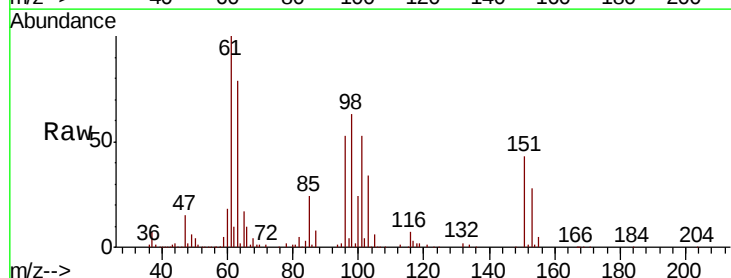
Tgt Ion: 96 Resp: 40038

Ion Ratio Lower Upper

96 100

61 189.3 125.0 232.2

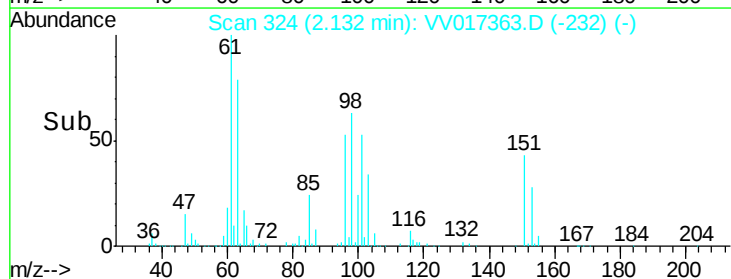
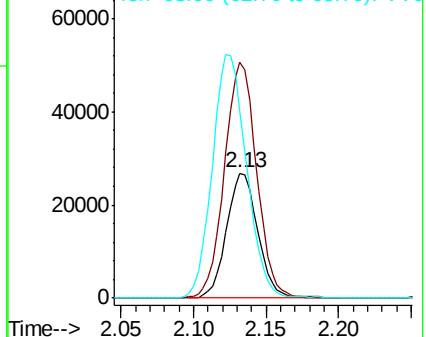
63 149.6 109.8 203.8

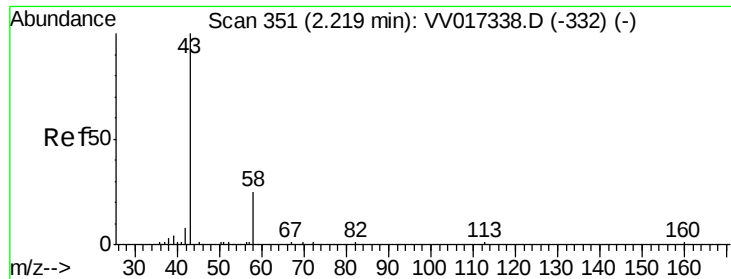


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 15.187 ug/L

RT: 2.23 min Scan# 354

Delta R.T. 0.01 min

Lab File: VV017363.D

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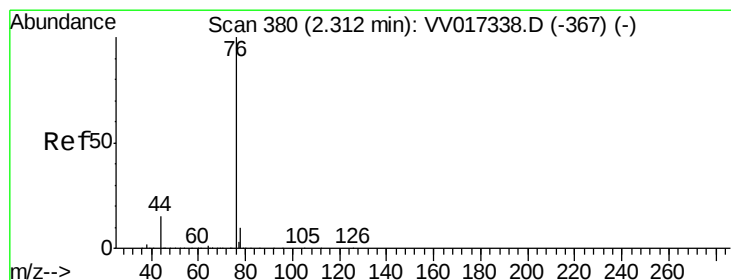
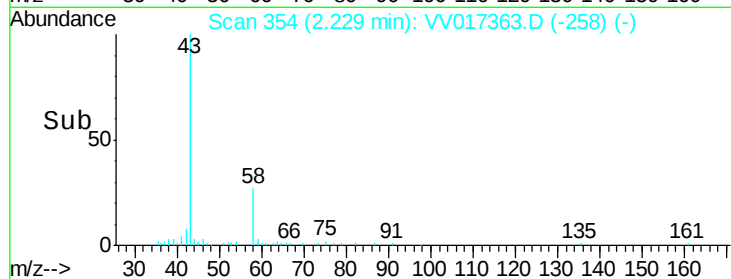
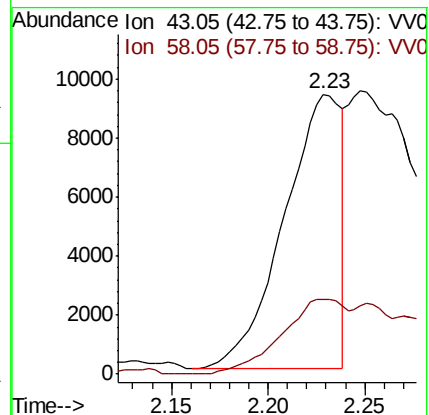
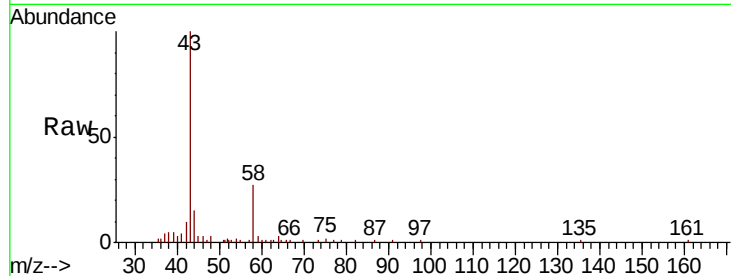
VSTD00548

Tot Ion: 43 Resp: 19197

Ion Ratio Lower Upper

43 100

58 30.4 0.0 58.4



#14

Carbon disulfide

Concen: 4.350 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

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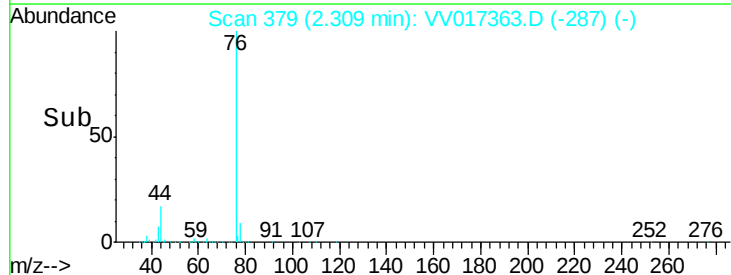
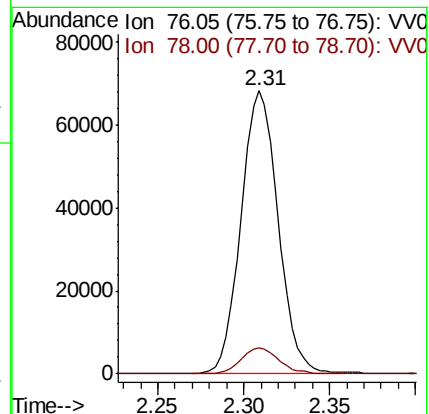
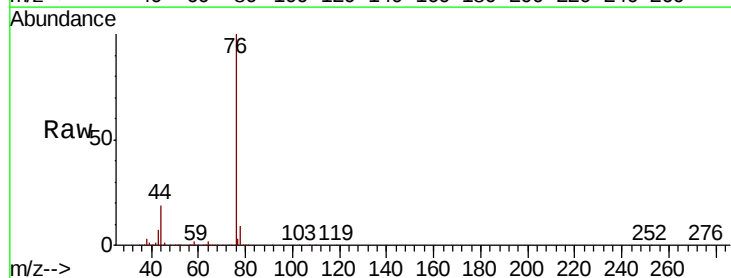
Acq: 06 Jul 2020 20:04

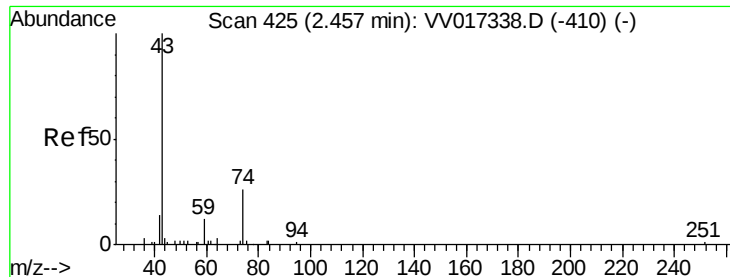
Tgt Ion: 76 Resp: 102268

Ion Ratio Lower Upper

76 100

78 9.3 7.7 11.5





#15

Methyl Acetate

Concen: 4.598 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.01 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

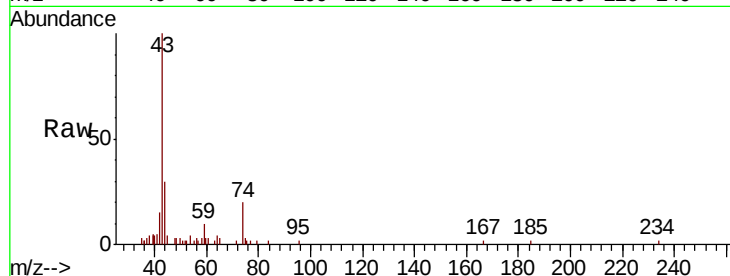
VSTD00548

Tot Ion: 43 Resp: 14209

Ion Ratio Lower Upper

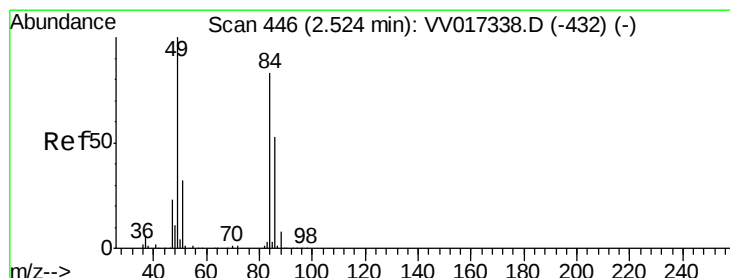
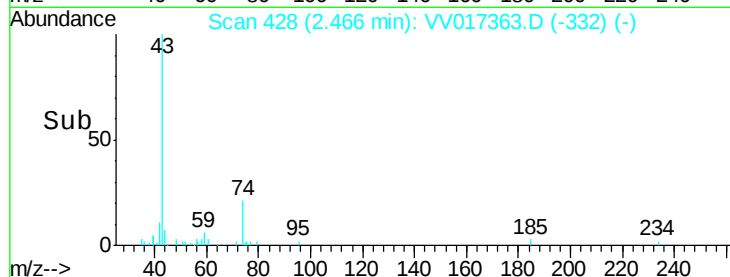
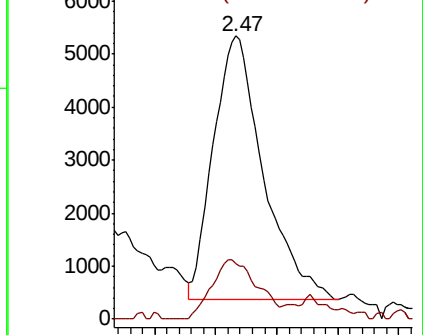
43 100

74 20.4 19.1 28.7



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 5.027 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

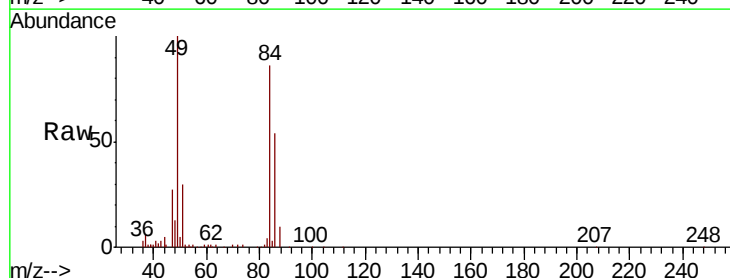
Tgt Ion: 84 Resp: 42241

Ion Ratio Lower Upper

84 100

86 63.3 45.8 85.0

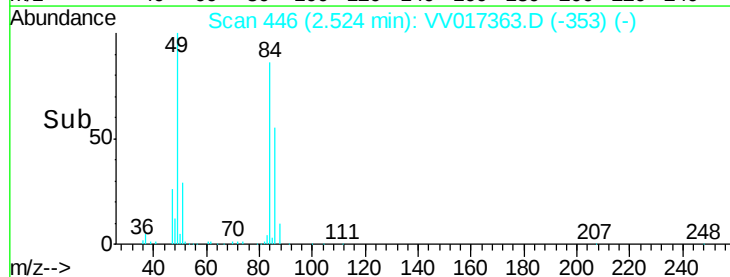
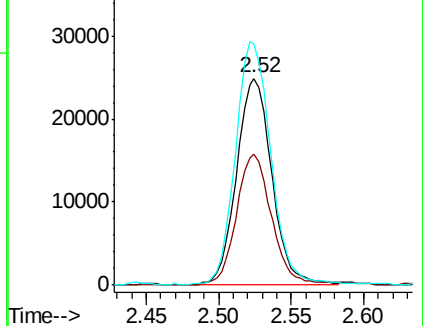
49 116.3 89.6 166.4

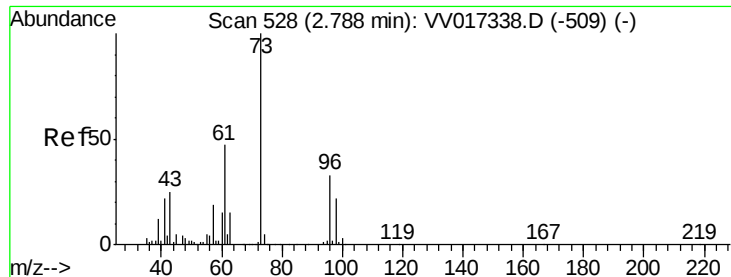


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

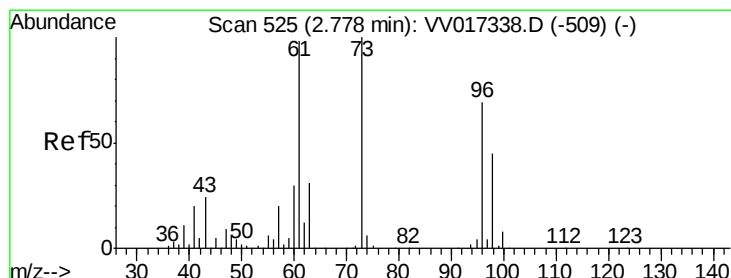
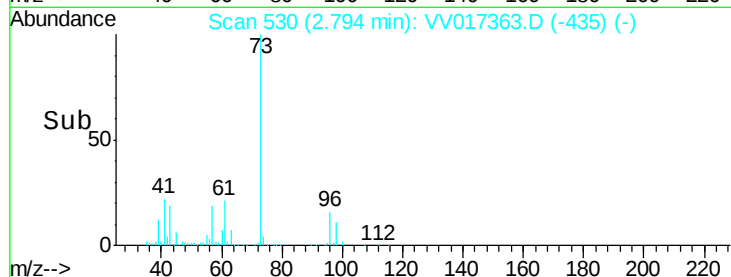
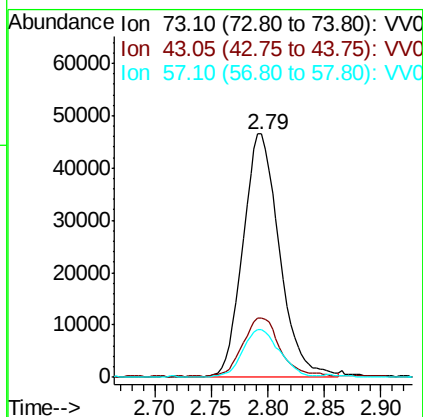
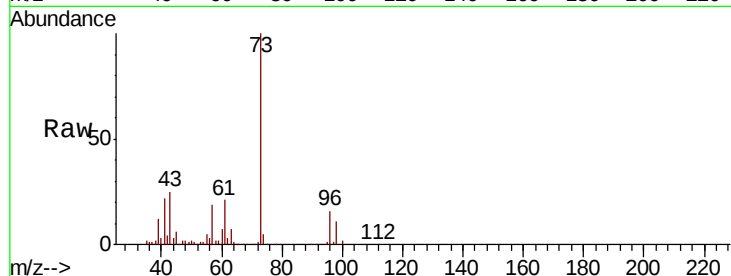




#17
Methvl tert-butvl Ether
Concen: 5.316 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV017363.D
Acq: 06 Jul 2020 20:04

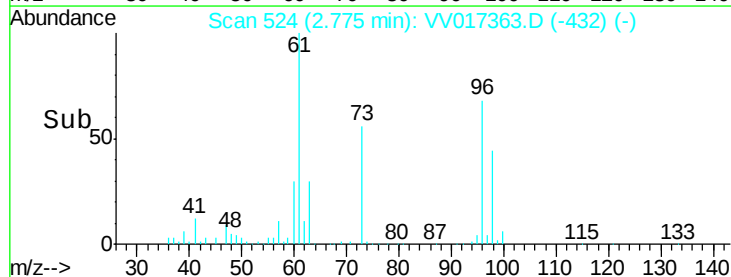
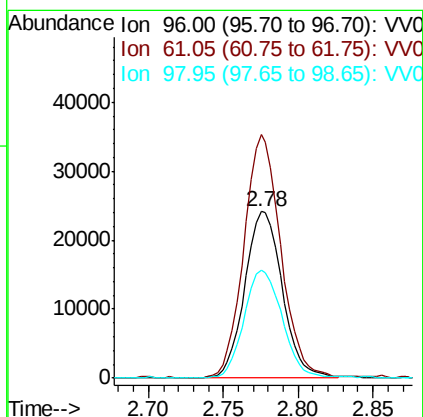
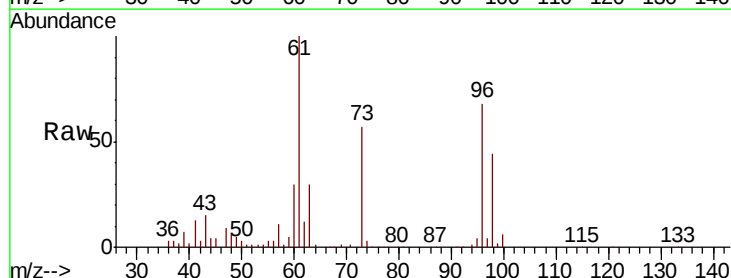
Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

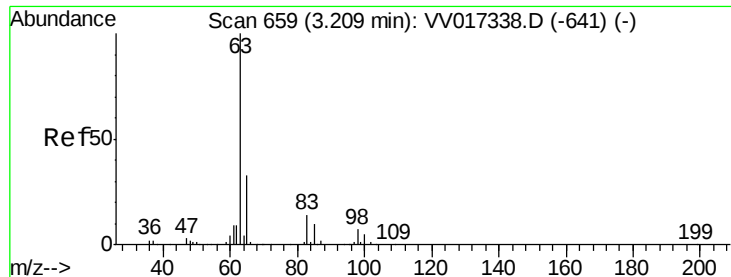
Tot Ion: 73 Resp: 104723
Ion Ratio Lower Upper
73 100
43 24.5 18.6 28.0
57 20.0 16.4 24.6



#18
trans-1,2-Dichloroethene
Concen: 5.086 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.00 min
Lab File: VV017363.D
Acq: 06 Jul 2020 20:04

Tgt Ion: 96 Resp: 42289
Ion Ratio Lower Upper
96 100
61 146.3 102.3 189.9
98 65.0 44.7 82.9

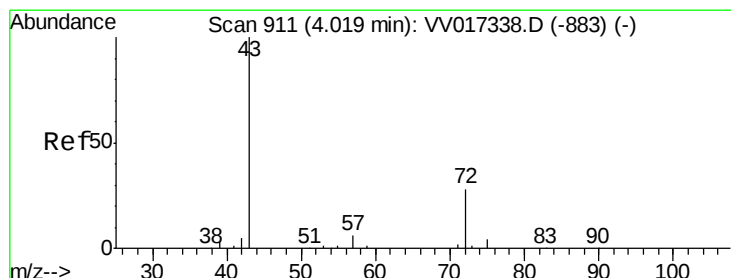
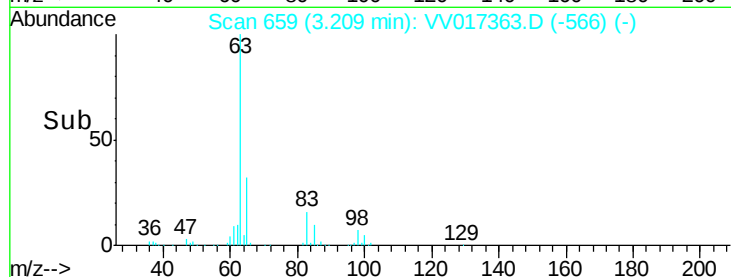
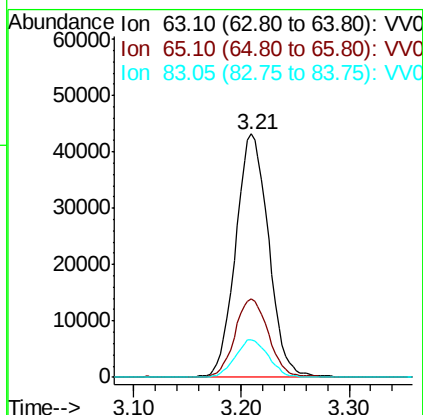
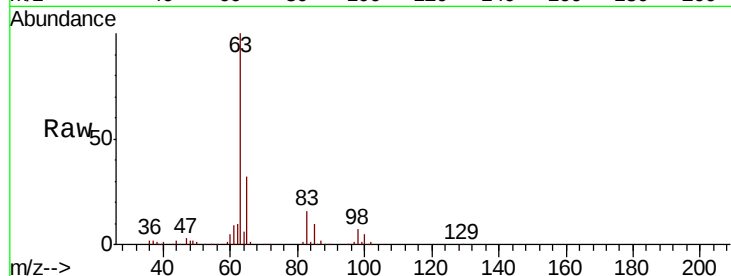




#19
 1,1-Dichloroethane
 Concen: 4.921 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VV017363.D
 Acq: 06 Jul 2020 20:04

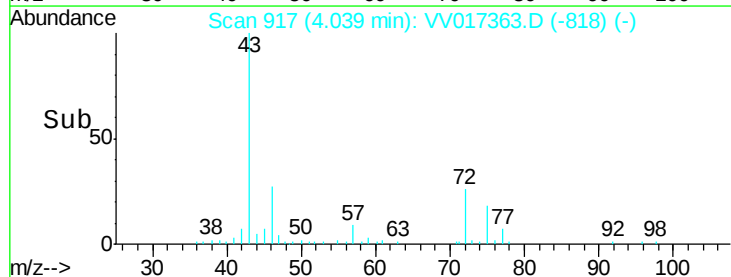
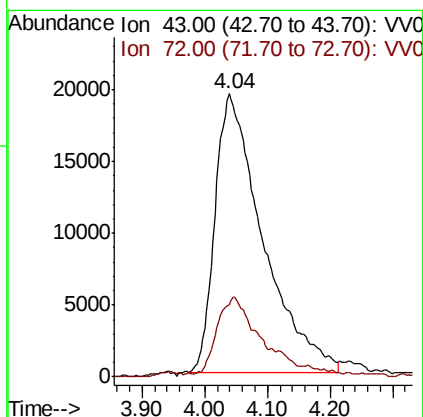
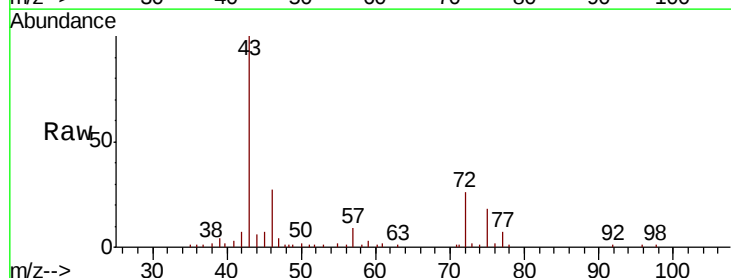
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

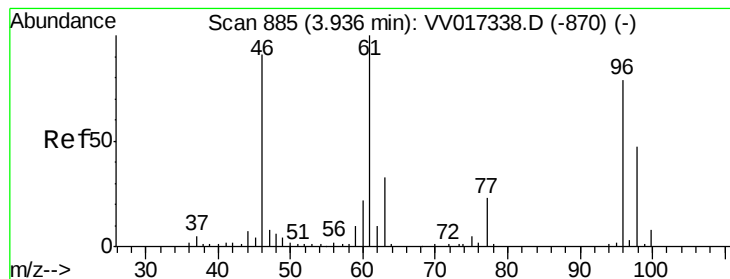
Tot Ion: 63 Resp: 91935
 Ion Ratio Lower Upper
 63 100
 65 32.2 21.8 40.4
 83 15.6 9.7 17.9



#21
 2-Butanone
 Concen: 42.950 ug/L
 RT: 4.04 min Scan# 917
 Delta R.T. 0.02 min
 Lab File: VV017363.D
 Acq: 06 Jul 2020 20:04

Tgt Ion: 43 Resp: 102344
 Ion Ratio Lower Upper
 43 100
 72 24.4 12.4 37.4





#22

cis-1,2-Dichloroethene

Concen: 4.541 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

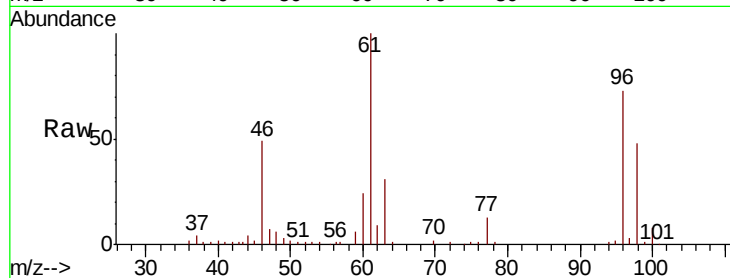
Tot Ion: 96 Resp: 51624

Ion Ratio Lower Upper

96 100

61 136.7 91.0 169.0

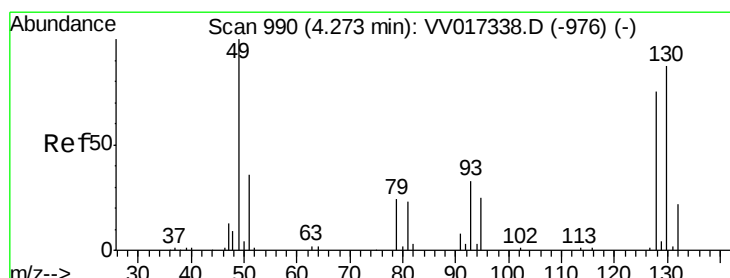
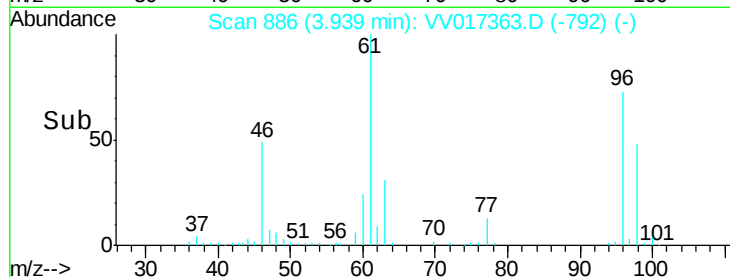
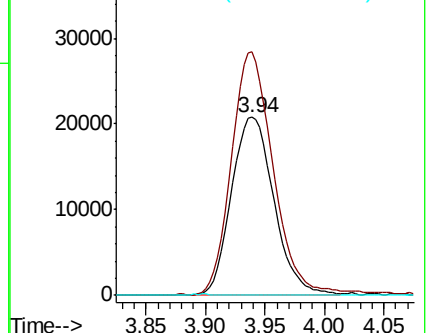
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV017363.D (-870) (-)

Ion 61.05 (60.75 to 61.75): VV017363.D (-870) (-)

Ion 68.15 (67.85 to 68.85): VV017363.D (-870) (-)



#23

Bromochloromethane

Concen: 4.888 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Tgt Ion: 128 Resp: 23617

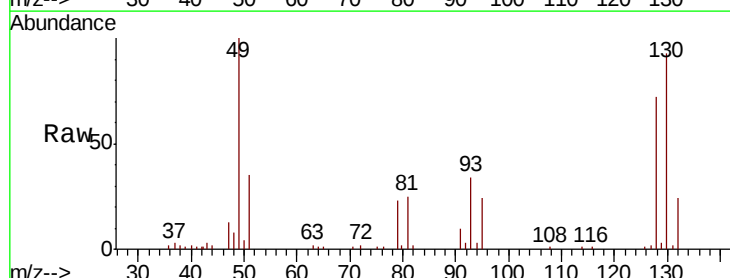
Ion Ratio Lower Upper

128 100

49 138.6 110.8 205.8

130 129.6 86.0 159.8

51 48.8 39.4 59.2

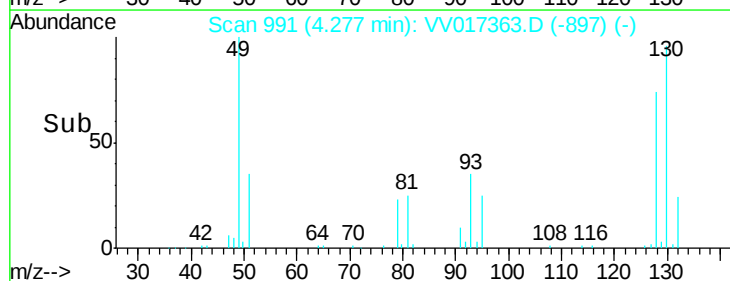
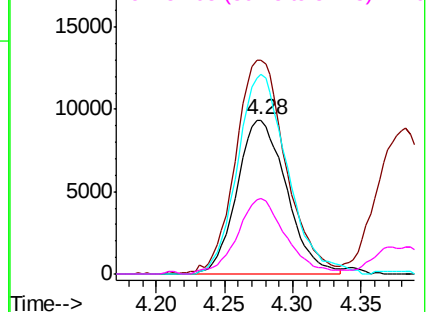


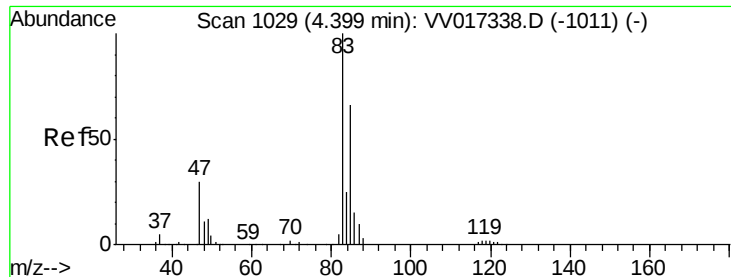
Abundance Ion 127.90 (127.60 to 128.60): VV017363.D (-897) (-)

Ion 49.10 (48.80 to 49.80): VV017363.D (-897) (-)

Ion 129.95 (129.65 to 130.65): VV017363.D (-897) (-)

Ion 51.05 (50.75 to 51.75): VV017363.D (-897) (-)





#25

Chloroform

Concen: 5.060 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

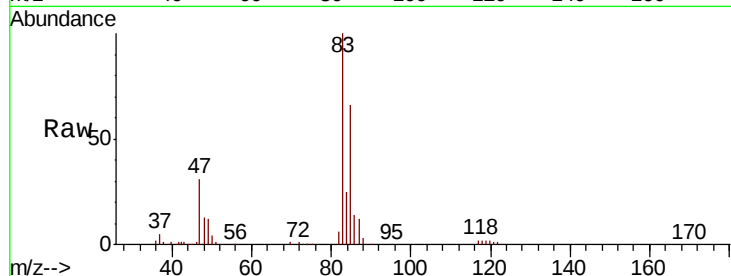
VSTD00548

Tot Ion: 83 Resp: 103248

Ion Ratio Lower Upper

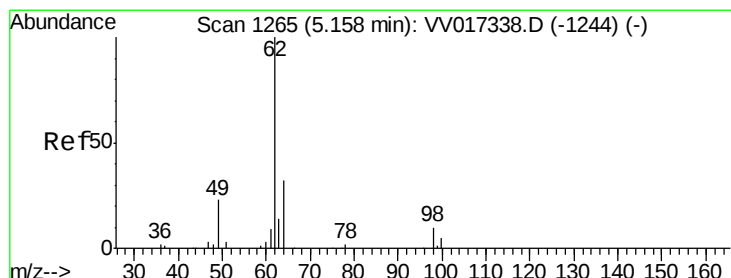
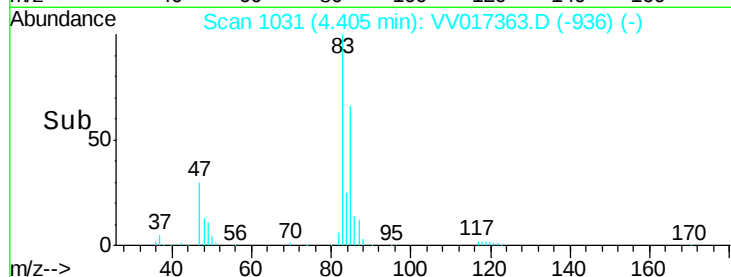
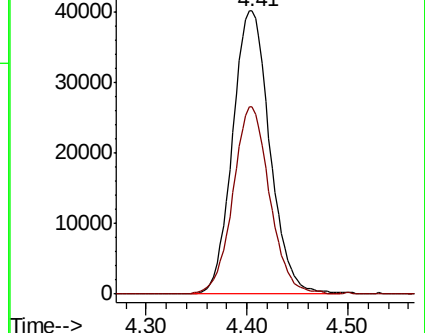
83 100

85 66.2 44.2 82.2



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 5.137 ug/L

RT: 5.16 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VV017363.D

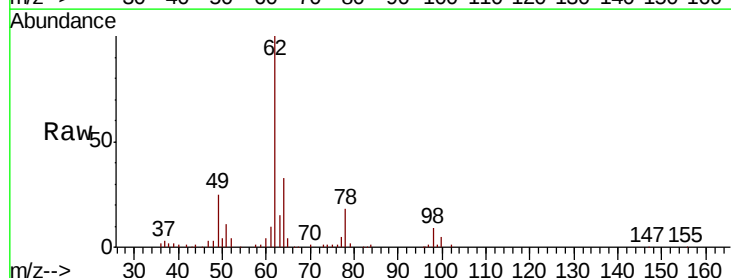
Acq: 06 Jul 2020 20:04

Tgt Ion: 62 Resp: 65125

Ion Ratio Lower Upper

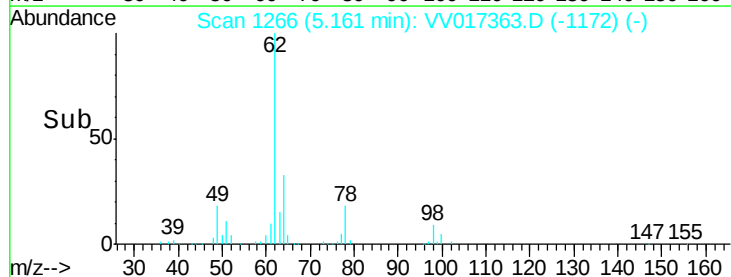
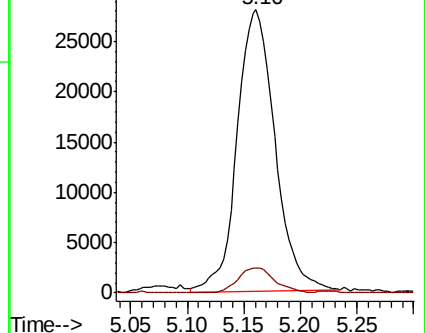
62 100

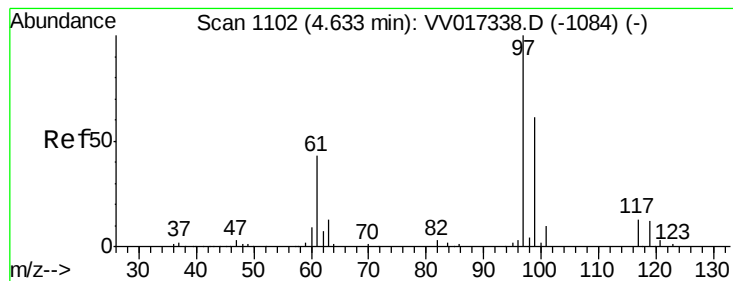
98 8.7 6.7 10.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0





#29

1,1,1-Trichloroethane

Concen: 5.127 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

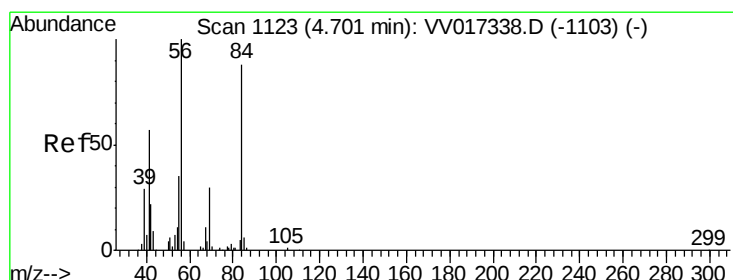
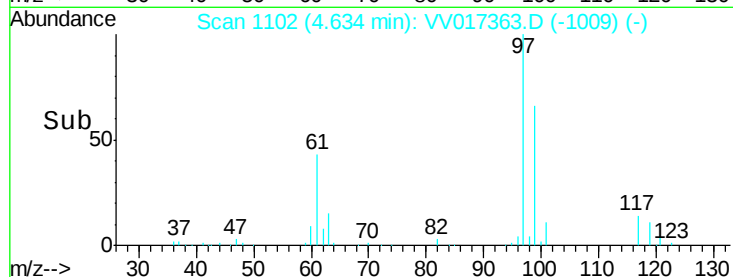
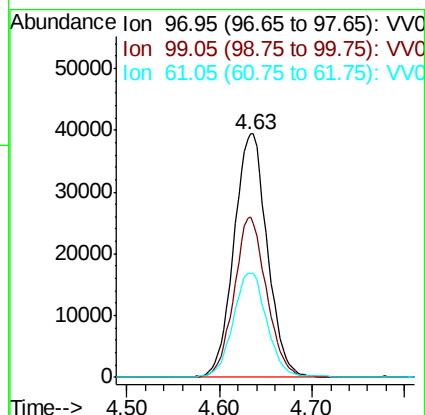
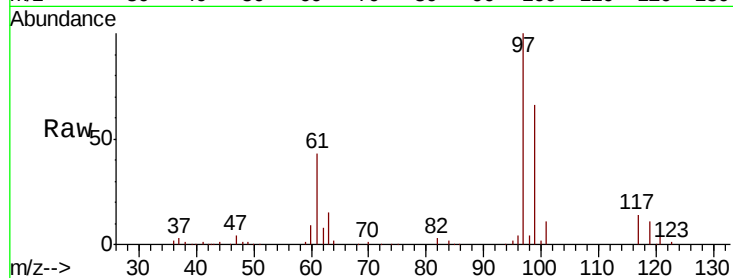
Tot Ion: 97 Resp: 98370

Ion Ratio Lower Upper

97 100

99 63.9 50.3 75.5

61 43.7 36.0 54.0



#30

Cyclohexane

Concen: 3.885 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

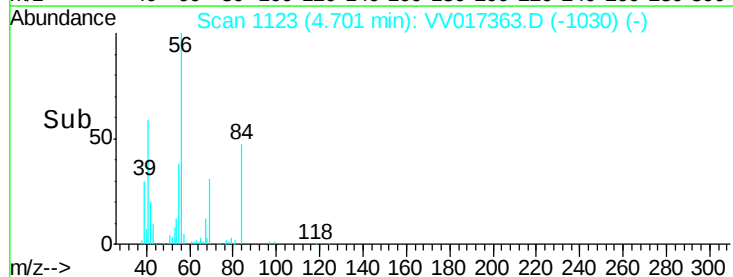
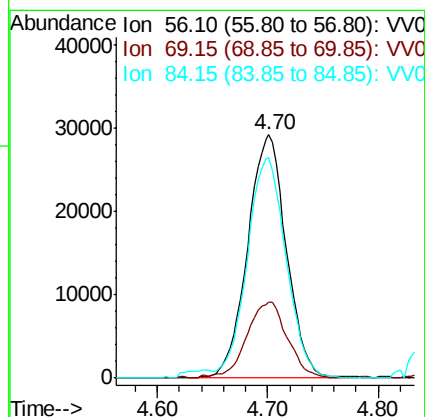
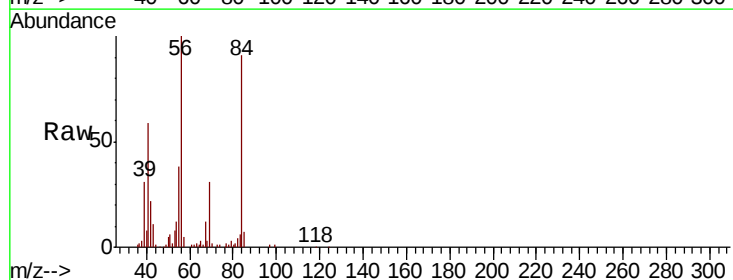
Tgt Ion: 56 Resp: 70928

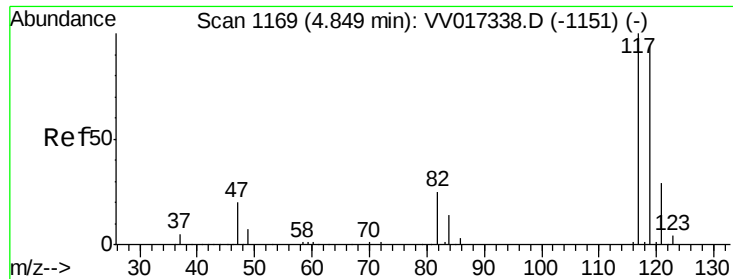
Ion Ratio Lower Upper

56 100

69 32.7 24.4 36.6

84 91.4 69.9 104.9





#31

Carbon tetrachloride

Concen: 5.112 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

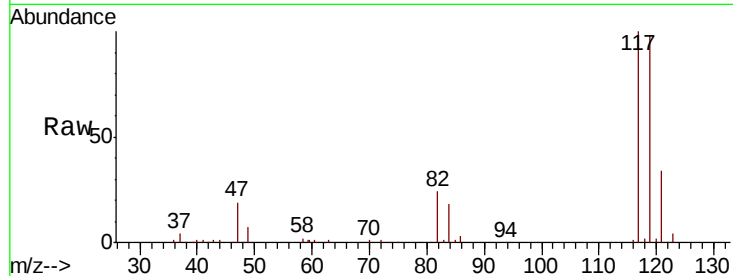
VSTD00548

Tot Ion:117 Resp: 88496

Ion Ratio Lower Upper

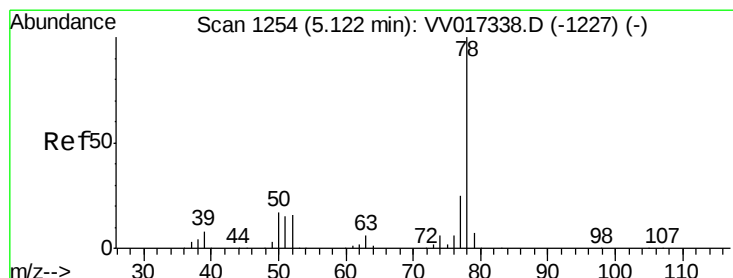
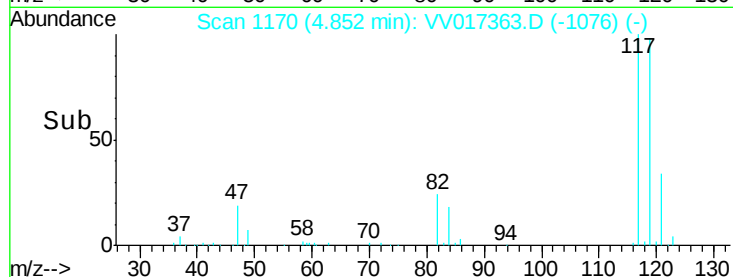
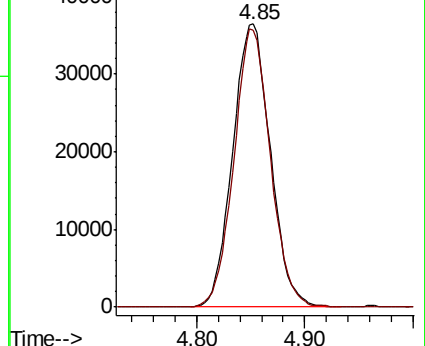
117 100

119 95.2 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.636 ug/L

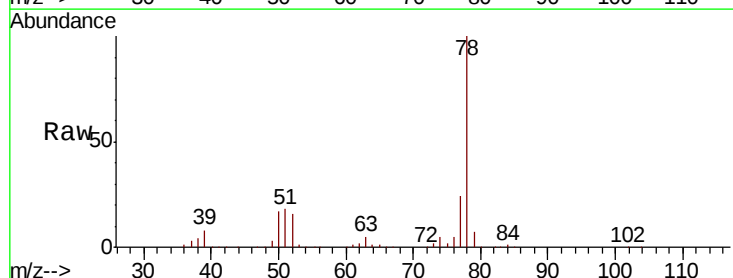
RT: 5.12 min Scan# 1254

Delta R.T. 0.00 min

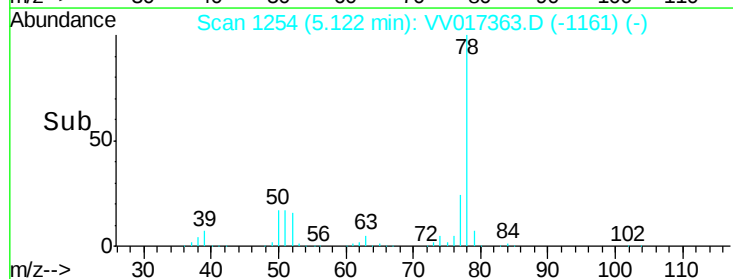
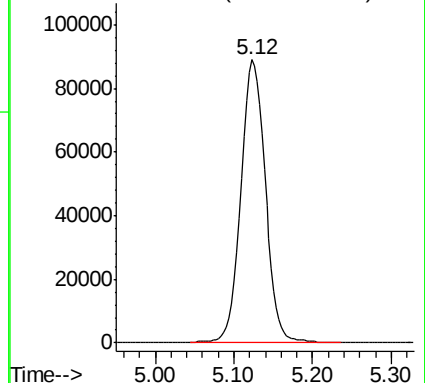
Lab File: VV017363.D

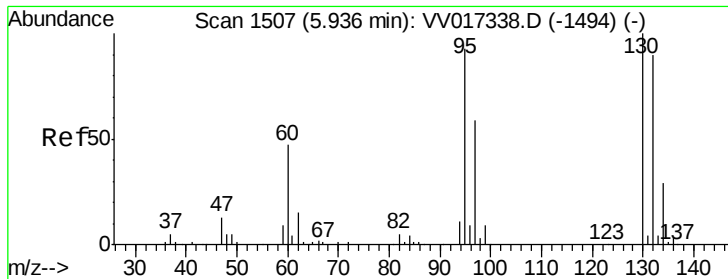
Acq: 06 Jul 2020 20:04

Tgt Ion: 78 Resp: 194438



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.517 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

Tot Ion: 95 Resp: 55472

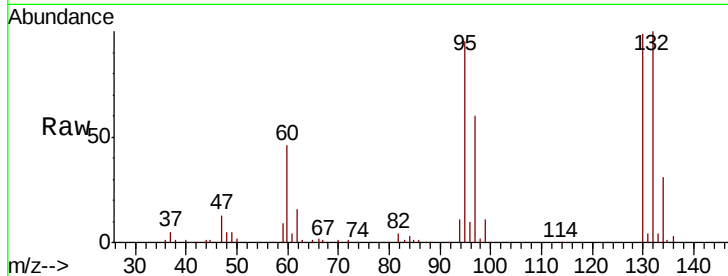
Ion Ratio Lower Upper

95 100

97 63.6 45.3 84.1

132 105.7 68.8 127.8

130 104.2 70.2 130.4

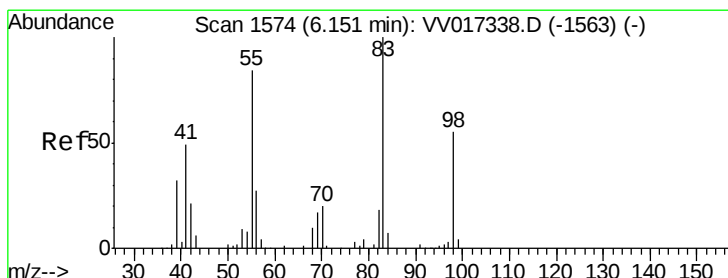
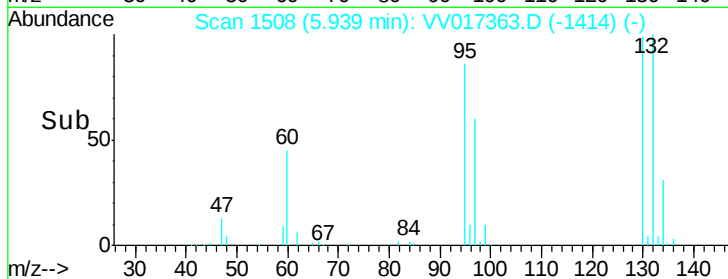
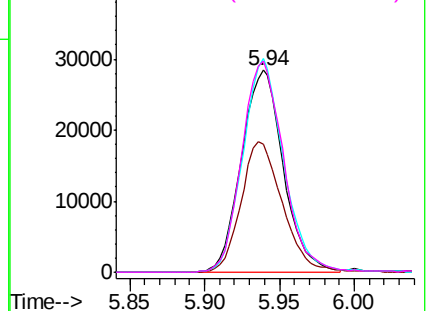


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 4.106 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

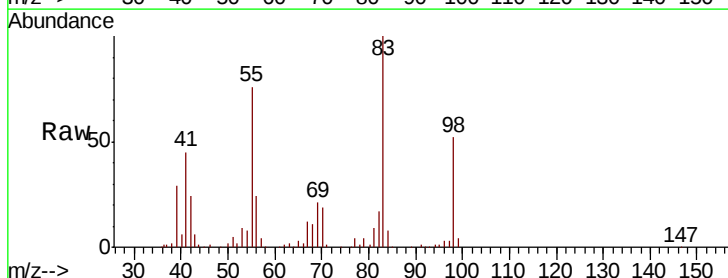
Tgt Ion: 83 Resp: 78385

Ion Ratio Lower Upper

83 100

55 76.2 63.6 95.4

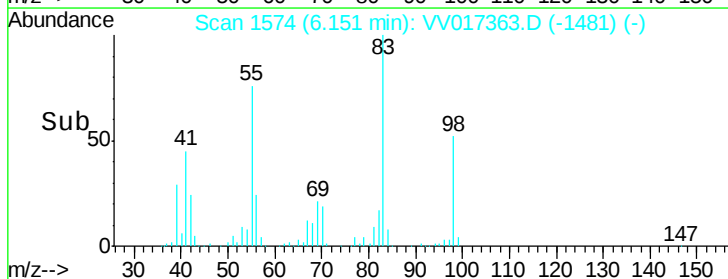
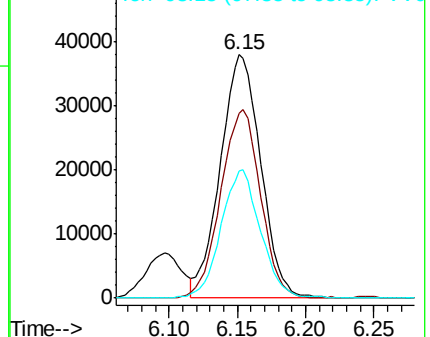
98 51.3 38.8 58.2

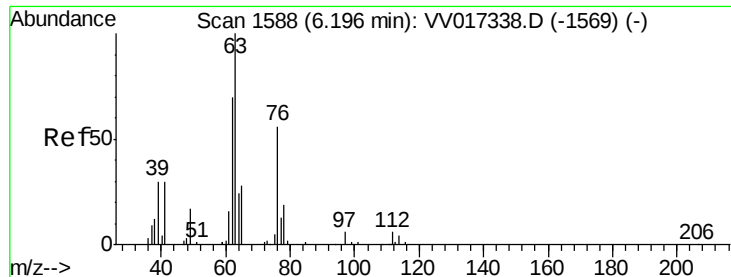


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 4.251 ug/L

RT: 6.20 min Scan# 1589

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

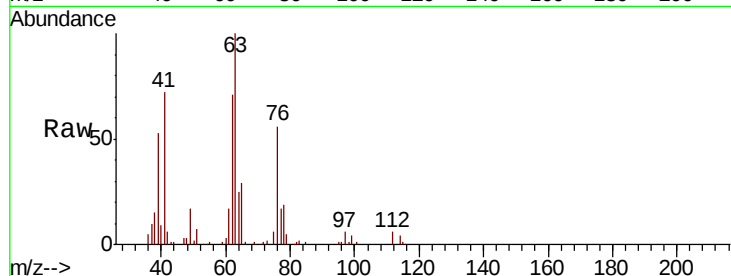
VSTD00548

Tot Ion: 63 Resp: 44129

Ion Ratio Lower Upper

63 100

112 5.9 4.4 6.6



Abundance Ion 63.10 (62.80 to 63.80): VV017363.D (-1569) (-)

Ion 112.10 (111.80 to 112.80): VV017363.D (-1569) (-)

6.20

25000

20000

15000

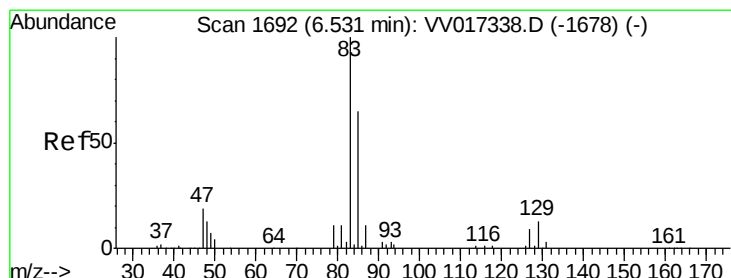
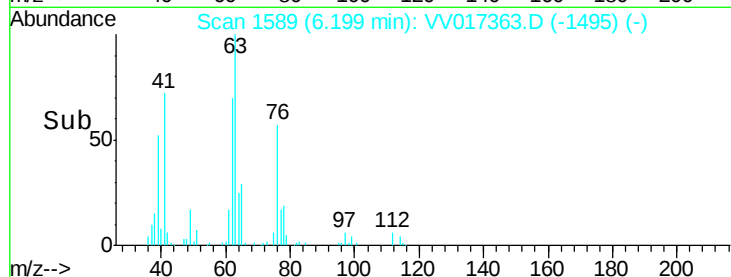
10000

5000

0

6.15 6.20 6.25

Time-->



#38

Bromodichloromethane

Concen: 4.872 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

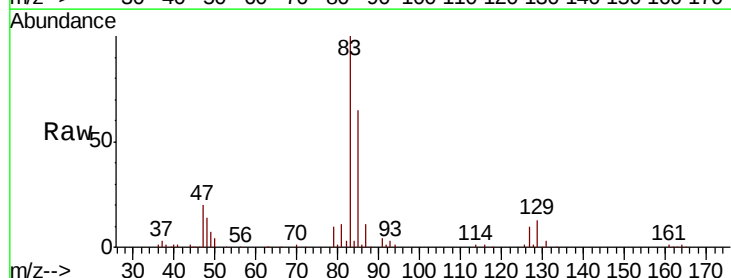
Tgt Ion: 83 Resp: 68709

Ion Ratio Lower Upper

83 100

85 65.4 43.4 80.6

127 10.3 7.9 11.9



Abundance Ion 82.95 (82.65 to 83.65): VV017363.D (-1599) (-)

Ion 85.00 (84.70 to 85.70): VV017363.D (-1599) (-)

Ion 126.90 (126.60 to 127.60): VV017363.D (-1599) (-)

6.53

40000

30000

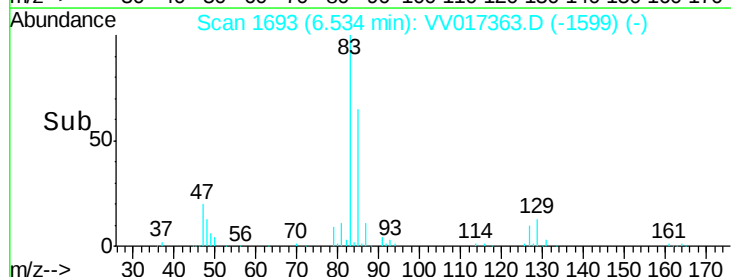
20000

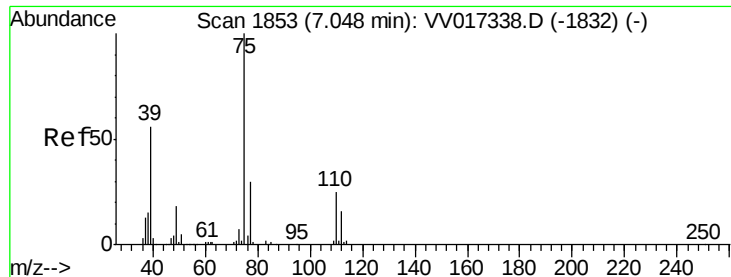
10000

0

6.45 6.50 6.55 6.60

Time-->



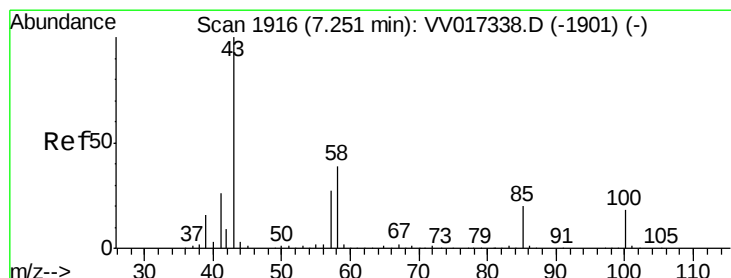
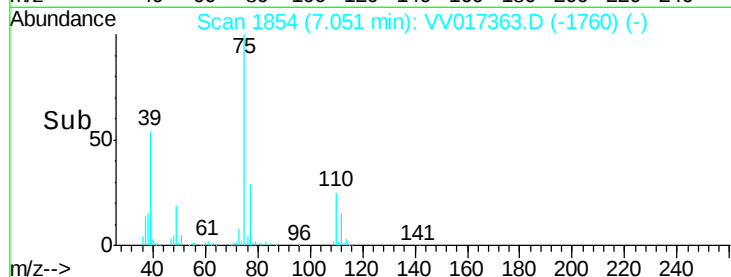
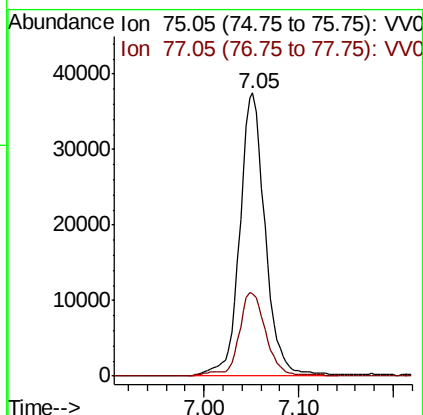
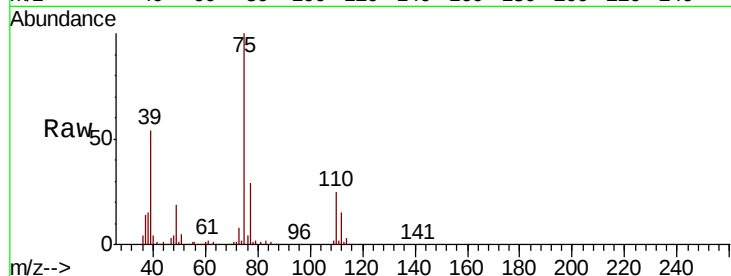


#39

cis-1,3-Dichloropropene
 Concen: 4.547 ug/L
 RT: 7.05 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VV017363.D
 Acq: 06 Jul 2020 20:04

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

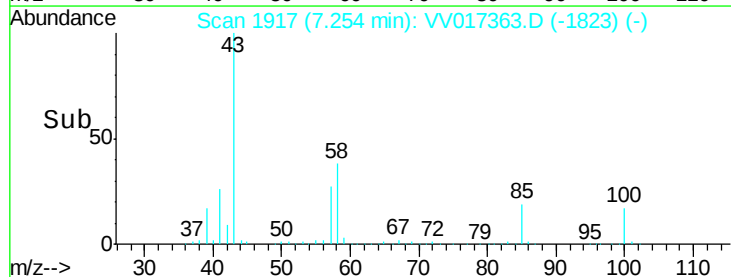
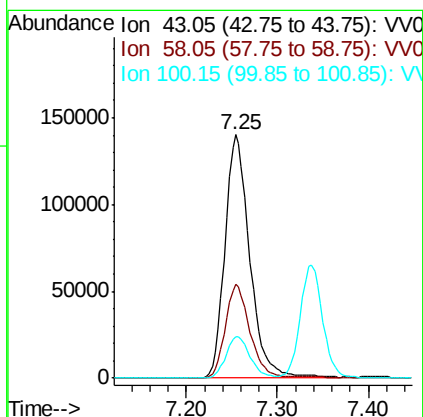
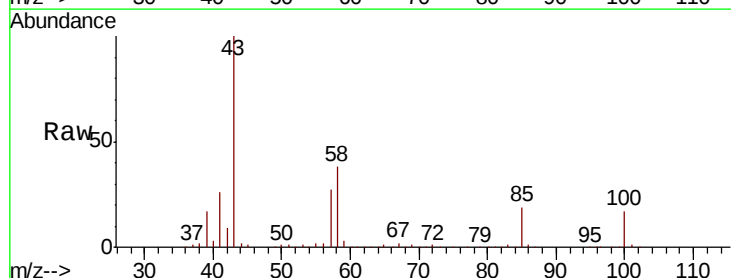
Tot Ion: 75 Resp: 70137
 Ion Ratio Lower Upper
 75 100
 77 29.3 22.3 41.5

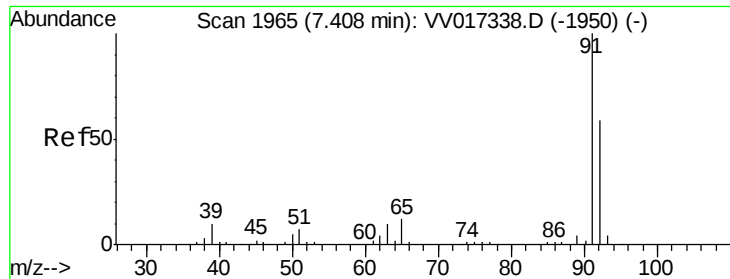


#40

4-Methyl-2-pentanone
 Concen: 44.184 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VV017363.D
 Acq: 06 Jul 2020 20:04

Tgt Ion: 43 Resp: 264844
 Ion Ratio Lower Upper
 43 100
 58 38.2 30.4 45.6
 100 16.8 12.7 19.1





#42

Toluene

Concen: 4.485 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

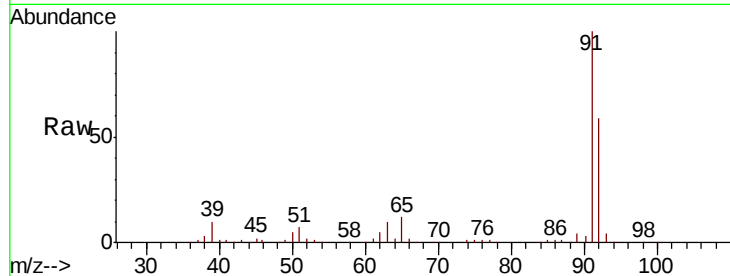
VSTD00548

Tot Ion: 91 Resp: 218700

Ion Ratio Lower Upper

91 100

92 59.1 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV017338.D (-1950) (-)

Ion 92.15 (91.85 to 92.85): VV017338.D (-1950) (-)

7.41

150000

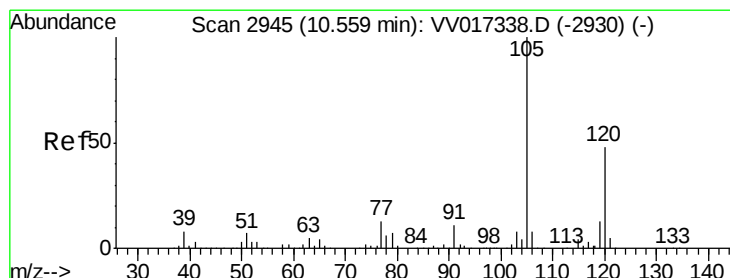
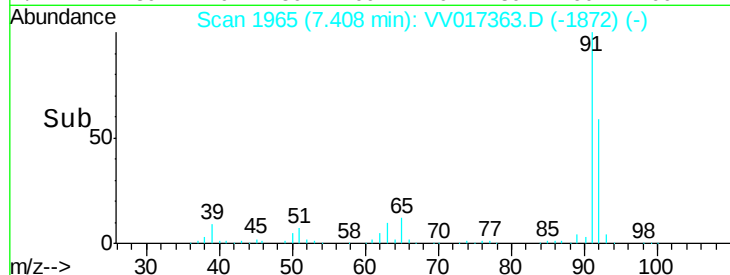
100000

50000

0

Time-->

7.35 7.40 7.45 7.50



#43

1,3,5-Trimethylbenzene

Concen: 4.864 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VV017363.D

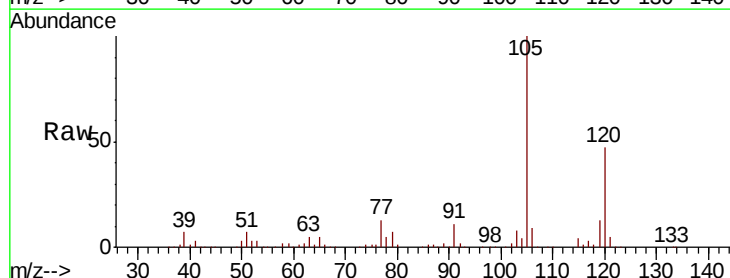
Acq: 06 Jul 2020 20:04

Tgt Ion:105 Resp: 212066

Ion Ratio Lower Upper

105 100

120 47.5 38.6 57.8



Abundance Ion 105.00 (104.70 to 105.70): VV017338.D (-2930) (-)

Ion 120.00 (119.70 to 120.70): VV017338.D (-2930) (-)

10.56

150000

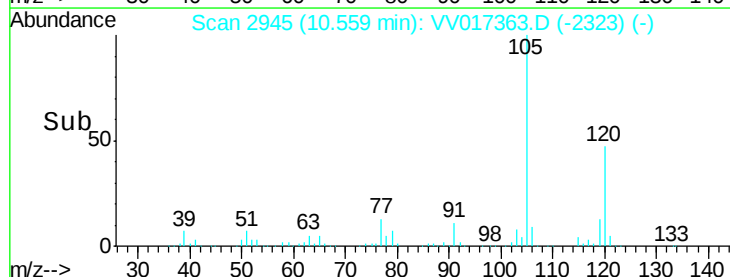
100000

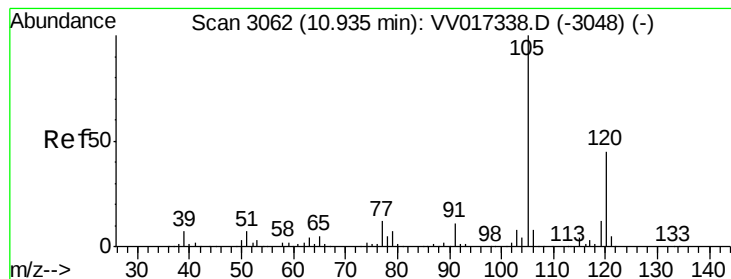
50000

0

Time-->

10.50 10.55 10.60 10.65





#44

1,2,4-Trimethylbenzene

Concen: 4.968 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

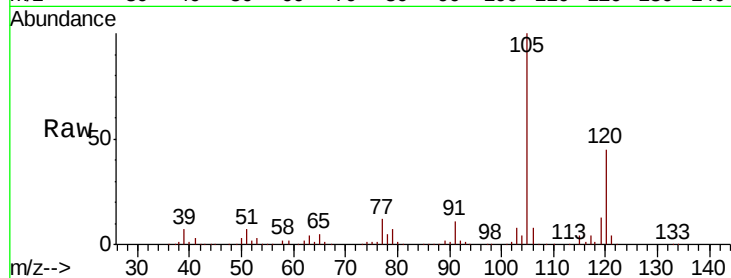
VSTD00548

Tot Ion:105 Resp: 220578

Ion Ratio Lower Upper

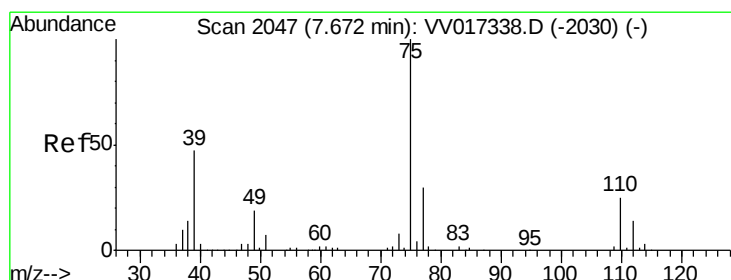
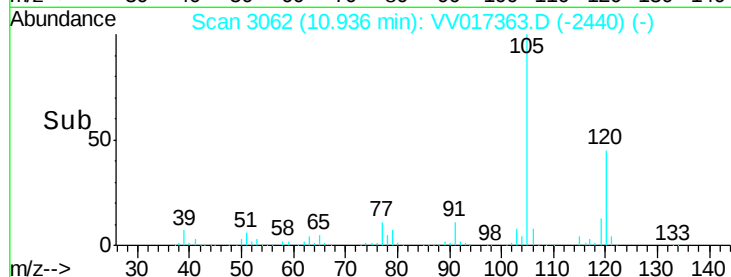
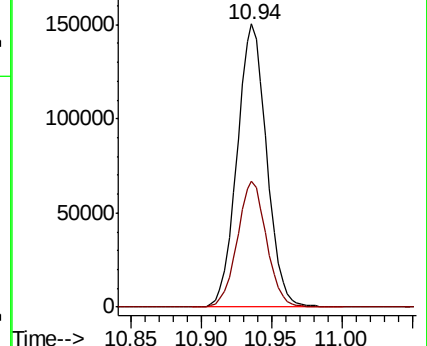
105 100

120 44.1 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#46

trans-1,3-Dichloropropene

Concen: 4.664 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV017363.D

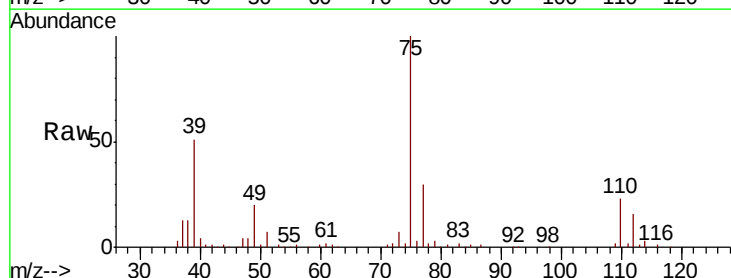
Acq: 06 Jul 2020 20:04

Tgt Ion: 75 Resp: 62222

Ion Ratio Lower Upper

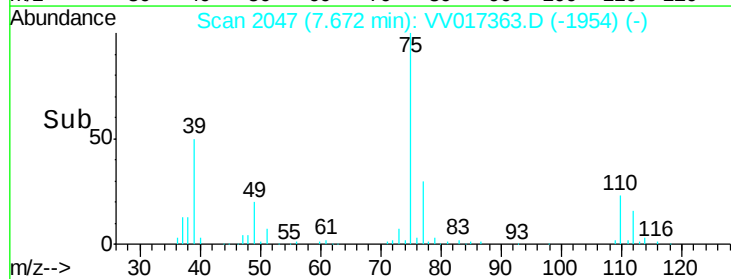
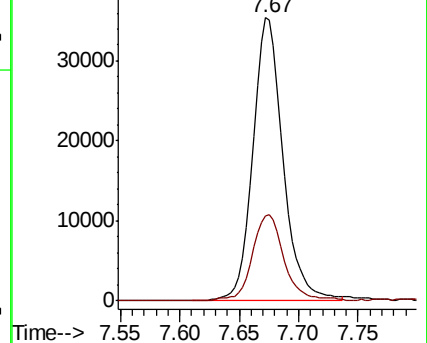
75 100

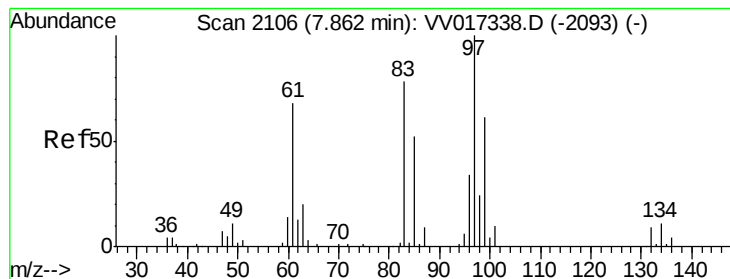
77 30.1 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





#47

1,1,2-Trichloroethane

Concen: 4.808 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

Tot Ion: 97 Resp: 35404

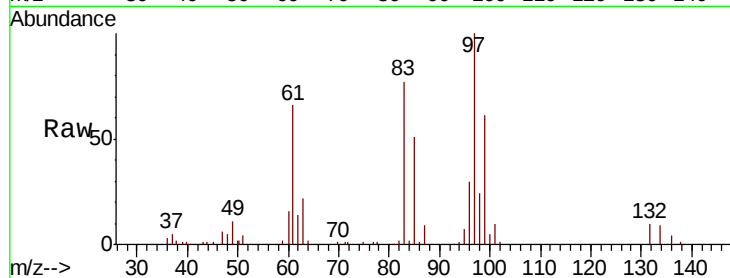
Ion Ratio Lower Upper

97 100

99 61.2 43.6 81.0

83 77.4 57.4 106.6

85 51.0 38.8 72.0

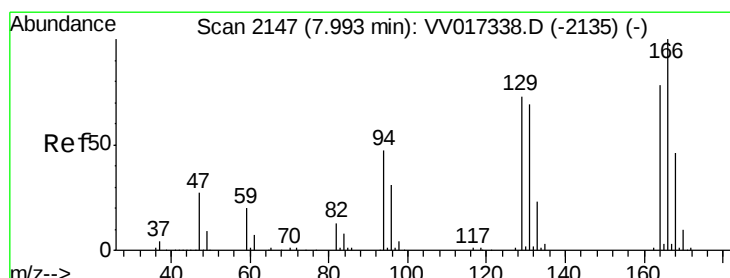
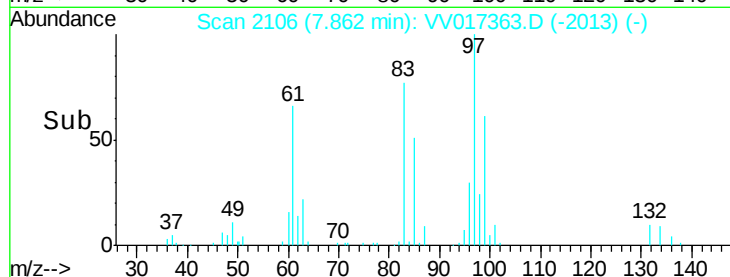
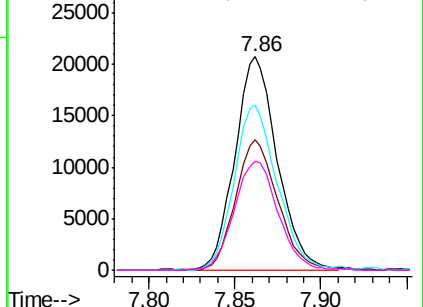


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#49

Tetrachloroethene

Concen: 4.721 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Tgt Ion: 164 Resp: 46661

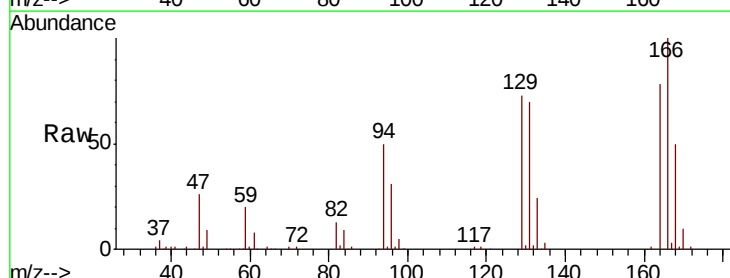
Ion Ratio Lower Upper

164 100

129 94.4 65.2 121.0

131 89.7 64.1 119.1

166 128.9 90.2 167.4

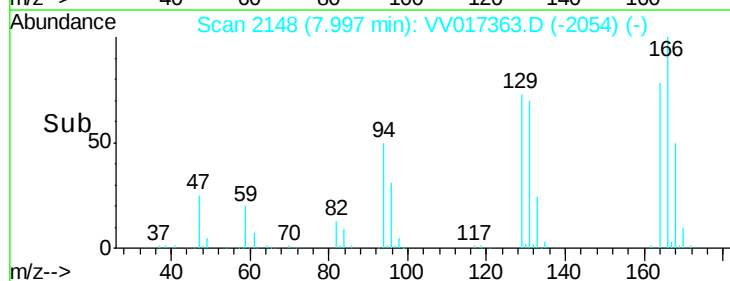
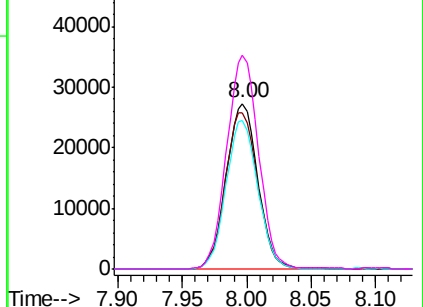


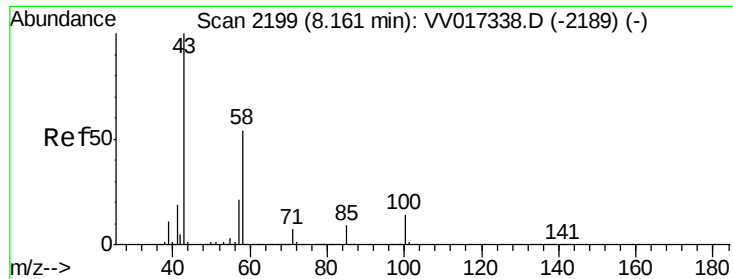
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

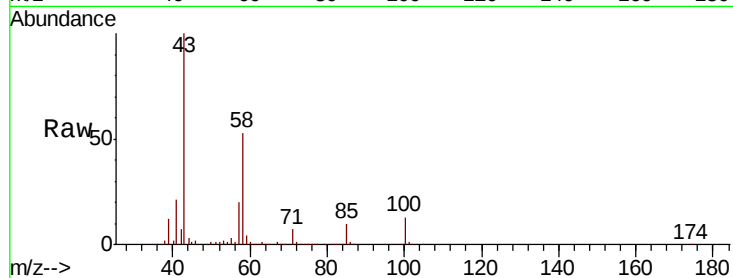




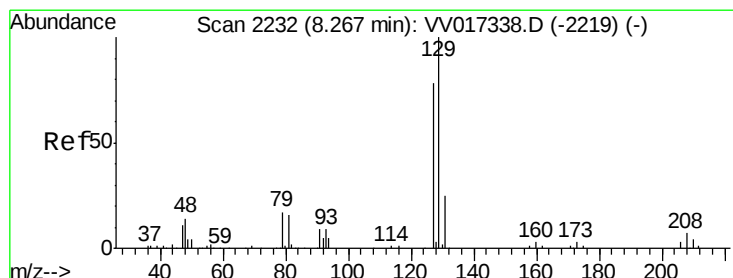
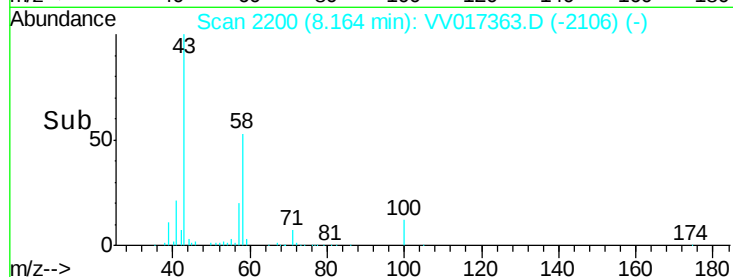
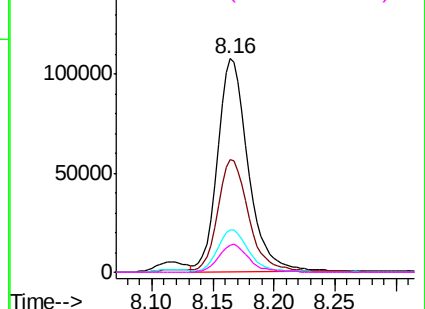
#50
2-Hexanone
Concen: 44.374 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VV017363.D
Acq: 06 Jul 2020 20:04

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Tot Ion: 43 Resp: 189289
Ion Ratio Lower Upper
43 100
58 53.1 41.6 62.4
57 20.1 15.4 23.0
100 13.0 10.1 15.1

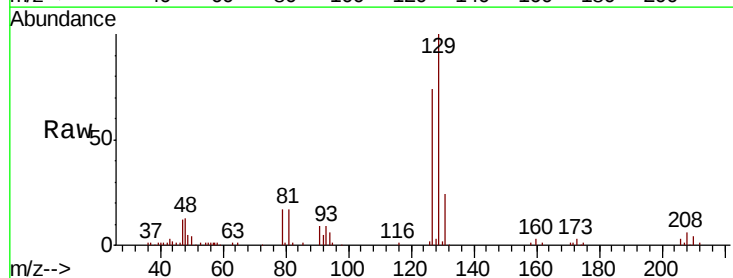


Abundance Ion 43.05 (42.75 to 43.75): VV017363.D (-2189) (-)
Ion 58.05 (57.75 to 58.75): VV017363.D (-2189) (-)
Ion 57.20 (56.90 to 57.90): VV017363.D (-2189) (-)
Ion 100.15 (99.85 to 100.85): VV017363.D (-2189) (-)

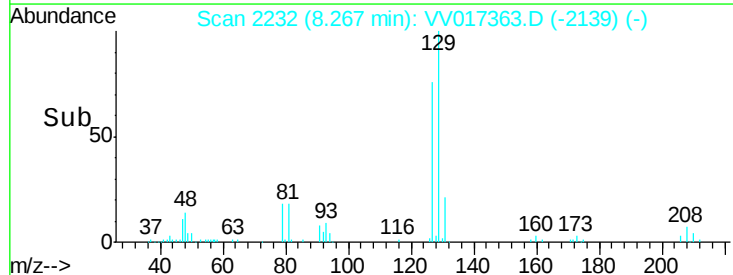
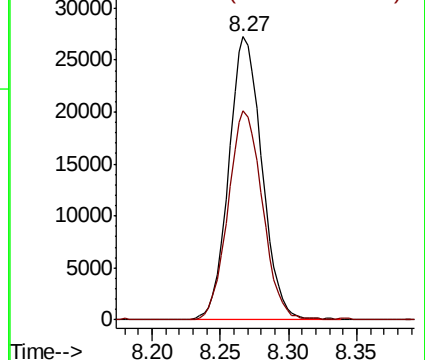


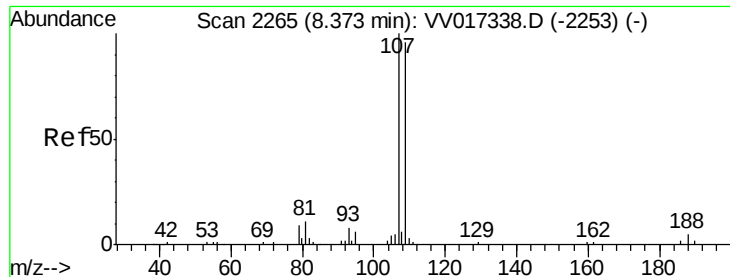
#51
Dibromochloromethane
Concen: 5.170 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV017363.D
Acq: 06 Jul 2020 20:04

Tgt Ion: 129 Resp: 46141
Ion Ratio Lower Upper
129 100
127 73.7 54.1 100.5



Abundance Ion 128.95 (128.65 to 129.65): VV017363.D (-2219) (-)
Ion 126.90 (126.60 to 127.60): VV017363.D (-2219) (-)





#52

1,2-Dibromoethane

Concen: 4.611 ug/L

RT: 8.38 min Scan# 2266

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

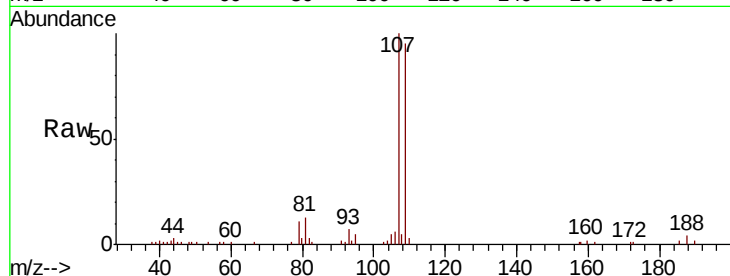
Tot Ion:107 Resp: 32201

Ion Ratio Lower Upper

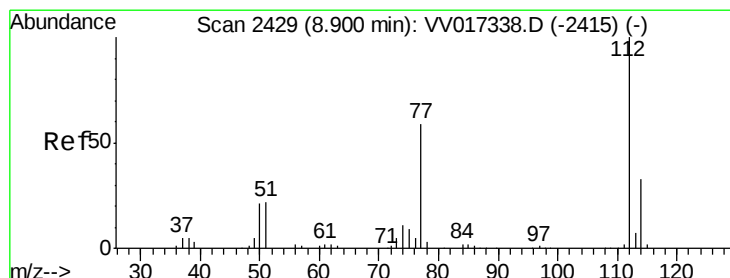
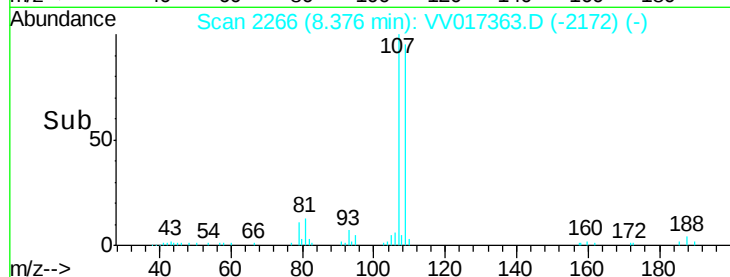
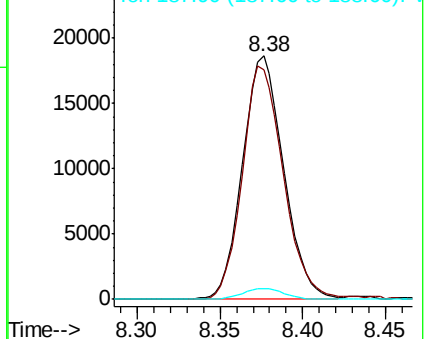
107 100

109 94.5 69.4 128.8

188 4.4 3.9 5.9



Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#53

Chlorobenzene

Concen: 4.739 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

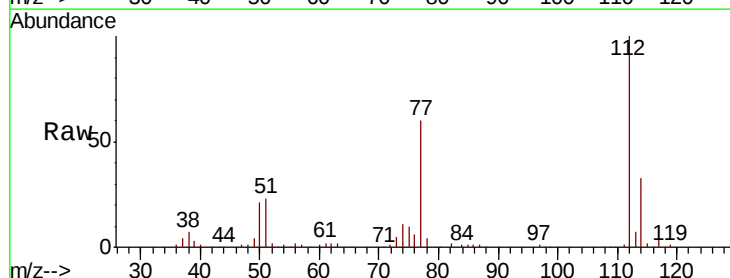
Tgt Ion:112 Resp: 144033

Ion Ratio Lower Upper

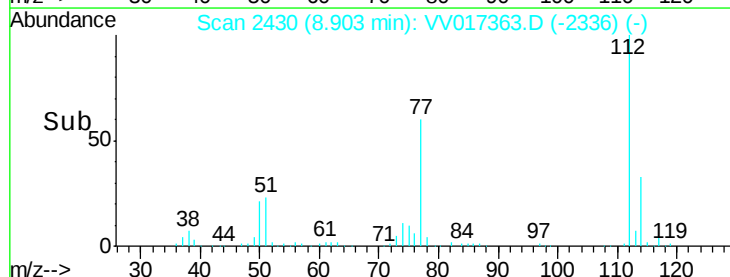
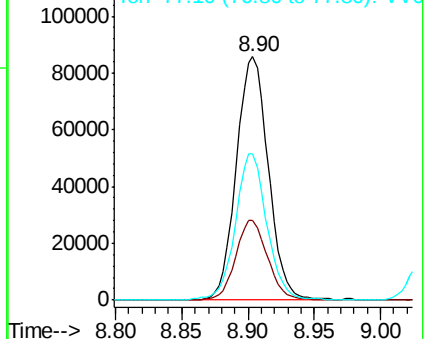
112 100

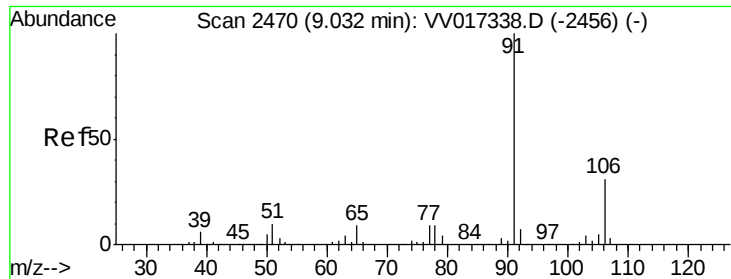
114 32.9 22.0 41.0

77 60.3 46.0 69.0



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#54

Ethylbenzene

Concen: 4.702 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

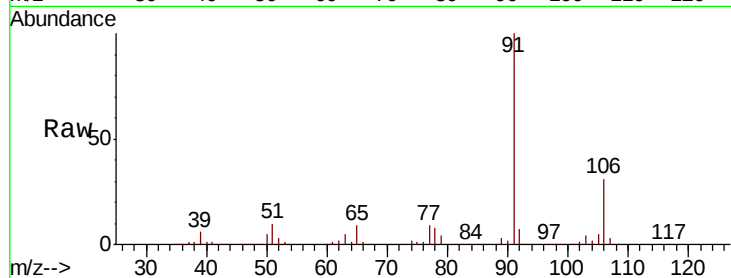
VSTD00548

Tot Ion: 91 Resp: 244718

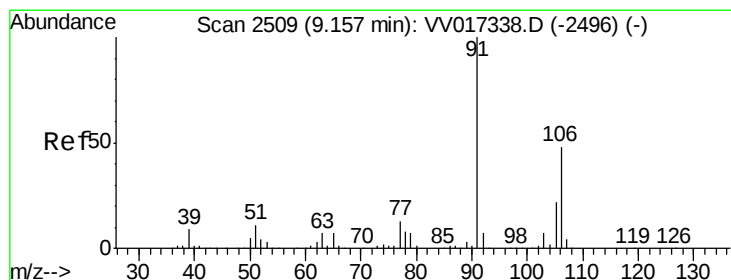
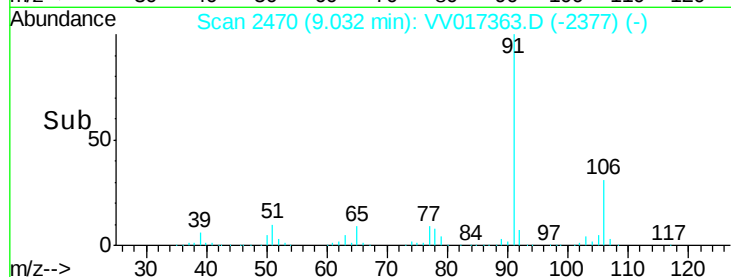
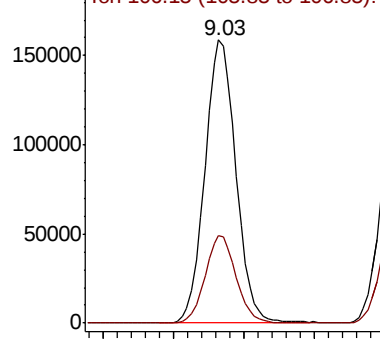
Ion Ratio Lower Upper

91 100

106 31.1 21.1 39.1



Abundance Ion 91.15 (90.85 to 91.85): VV017338.D (-2456) (-)



#55

m,p-xylene

Concen: 4.698 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV017363.D

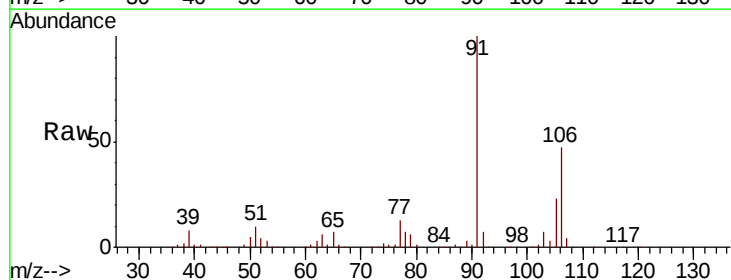
Acq: 06 Jul 2020 20:04

Tgt Ion: 106 Resp: 95909

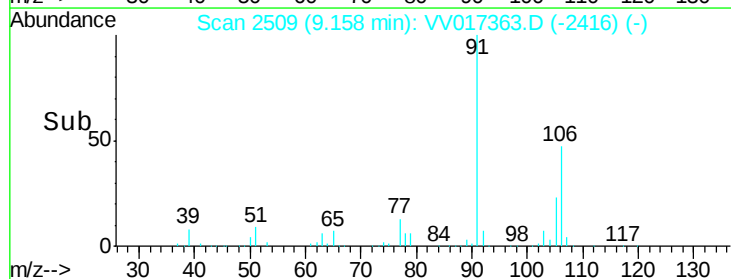
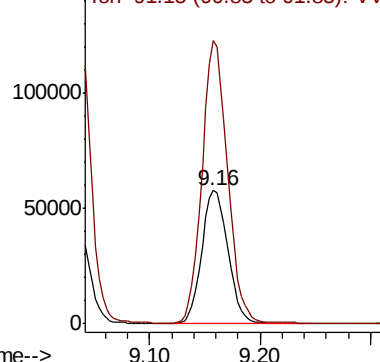
Ion Ratio Lower Upper

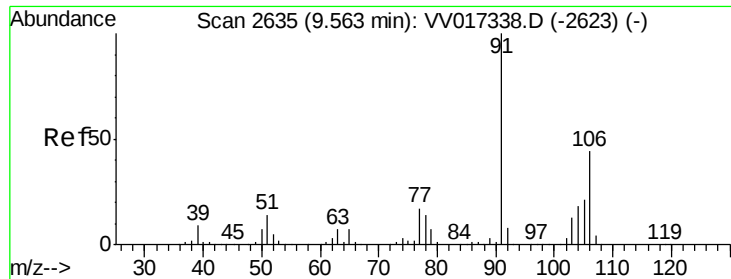
106 100

91 212.1 142.7 264.9



Abundance Ion 106.15 (105.85 to 106.85): VV017338.D (-2496) (-)

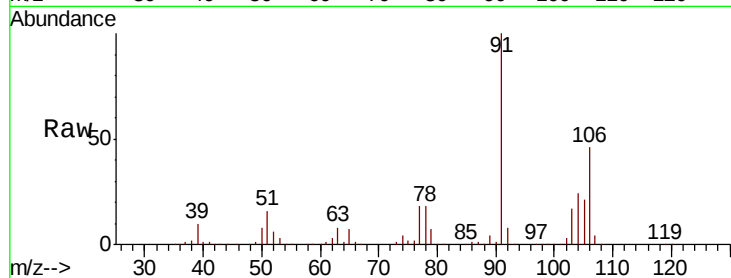




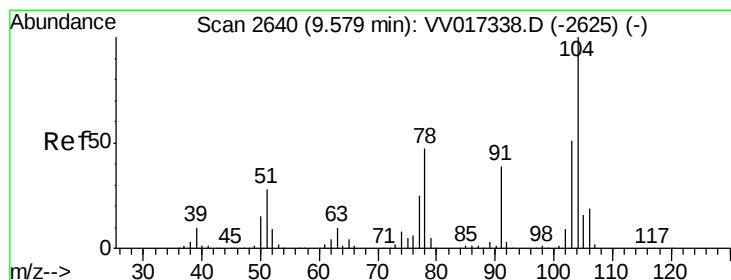
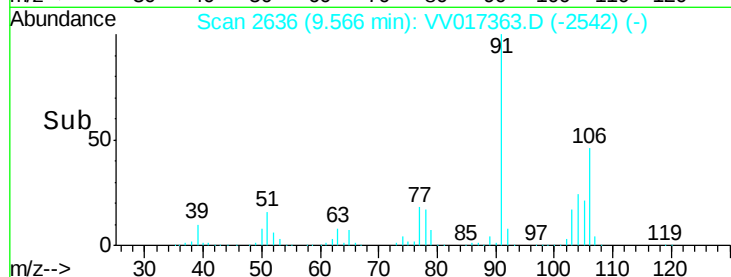
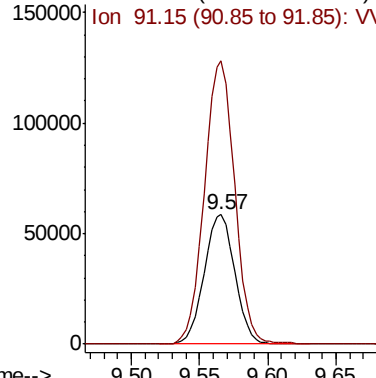
#56
o-xylene
Concen: 4.806 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV017363.D
Acq: 06 Jul 2020 20:04

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

Tot Ion:106 Resp: 91554
Ion Ratio Lower Upper
106 100
91 218.6 153.6 285.2

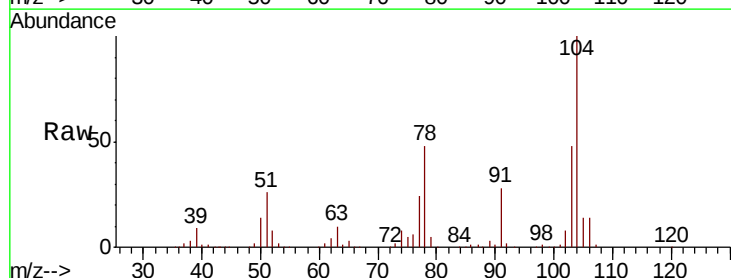


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

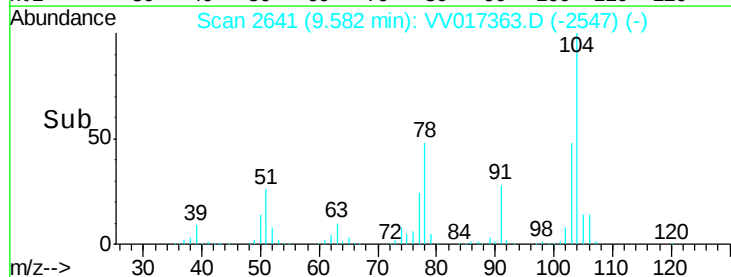
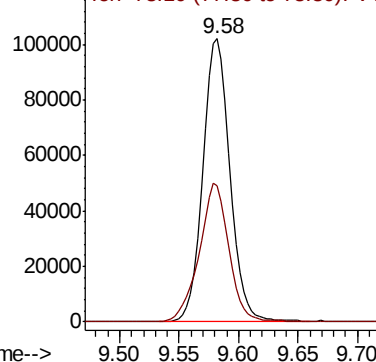


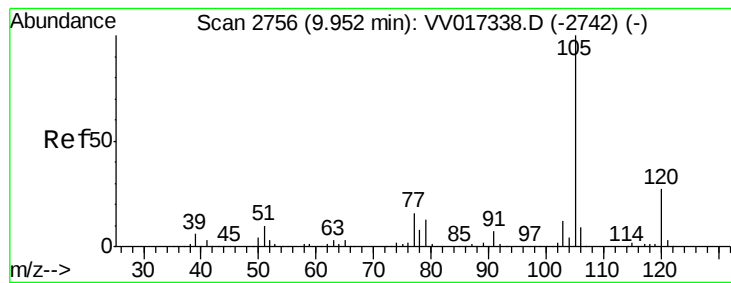
#57
Styrene
Concen: 5.110 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV017363.D
Acq: 06 Jul 2020 20:04

Tgt Ion:104 Resp: 161302
Ion Ratio Lower Upper
104 100
78 48.3 33.9 62.9



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 4.832 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

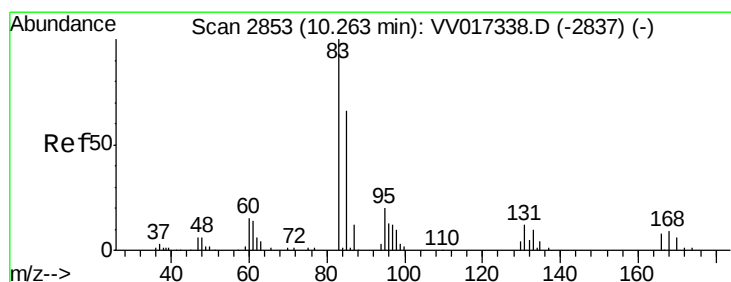
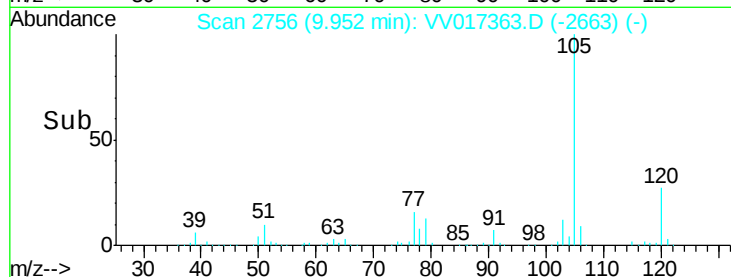
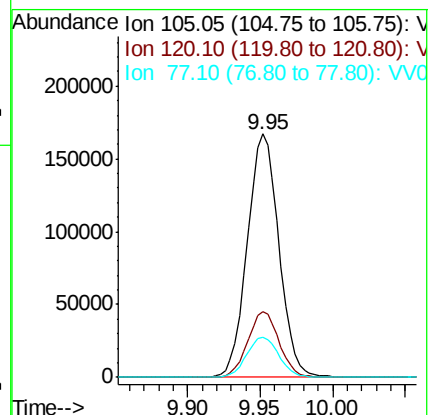
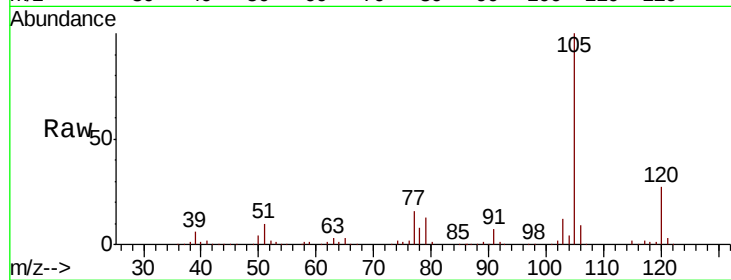
Tot Ion:105 Resp: 253284

Ion Ratio Lower Upper

105 100

120 26.7 21.2 31.8

77 16.7 13.0 19.4



#60

1,1,2,2-Tetrachloroethane

Concen: 4.963 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

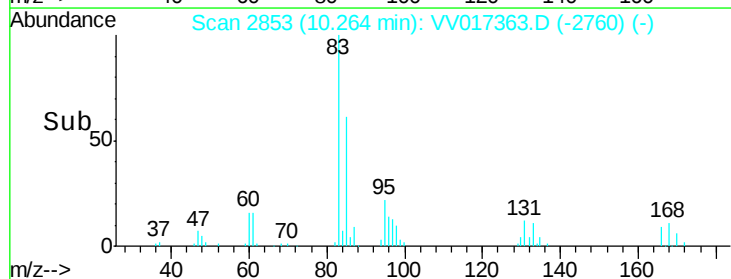
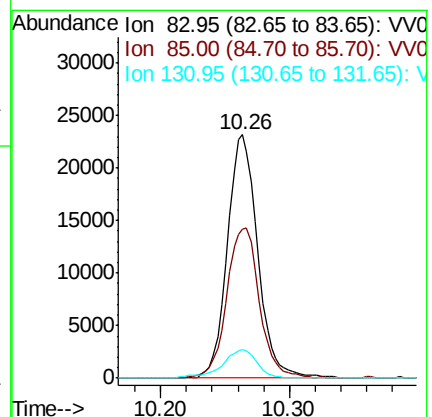
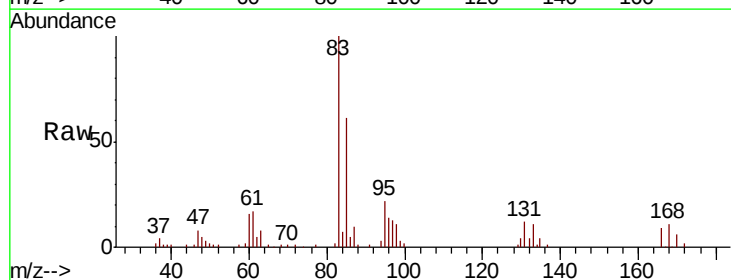
Tgt Ion: 83 Resp: 37797

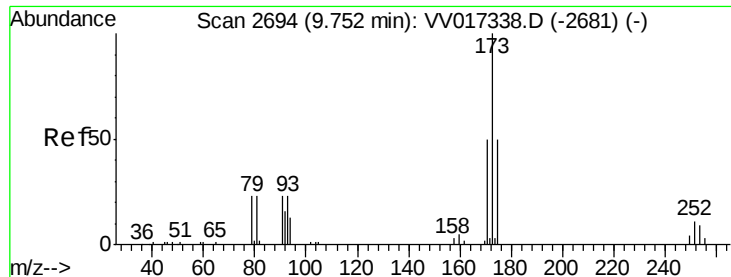
Ion Ratio Lower Upper

83 100

85 61.4 42.9 79.7

131 11.8 8.6 13.0





#62

Bromoform

Concen: 5.625 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :
MSVOA_V
ClientSampleId :
VSTD00548

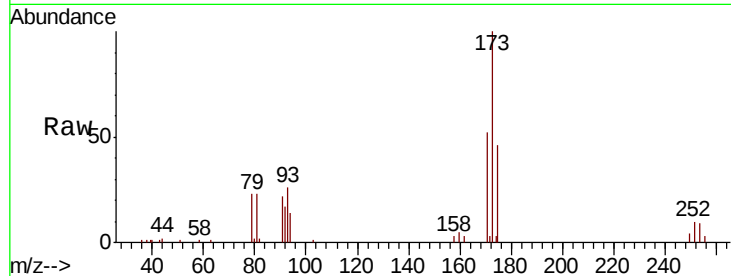
Tot Ion:173 Resp: 26002

Ion Ratio Lower Upper

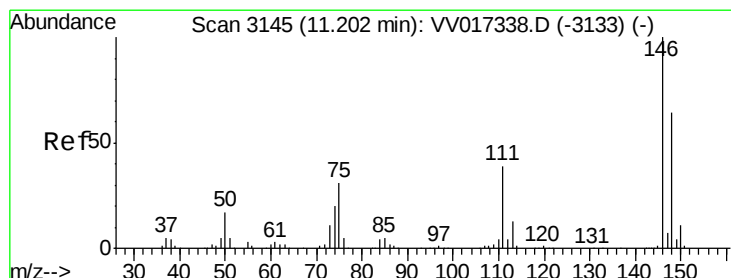
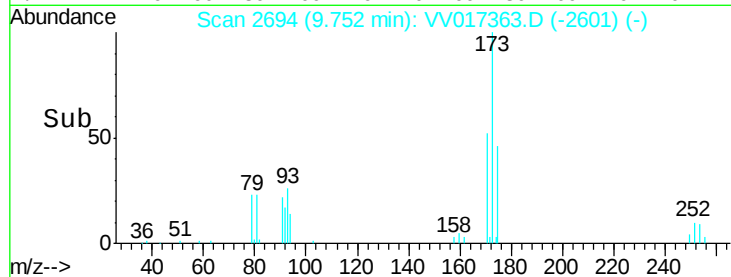
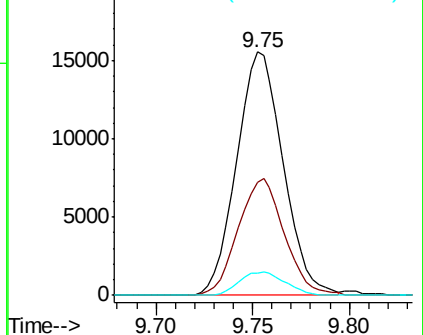
173 100

175 47.4 39.4 59.2

254 9.4 7.4 11.2



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#63

1,3-Dichlorobenzene

Concen: 4.844 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

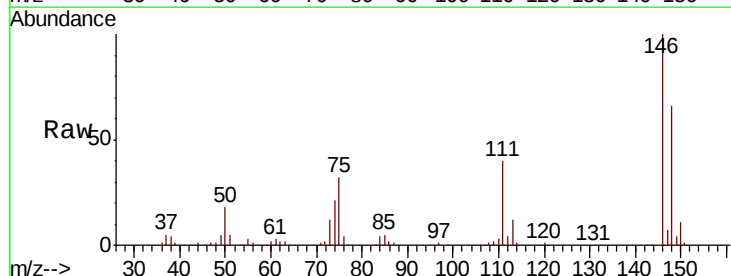
Tgt Ion:146 Resp: 126005

Ion Ratio Lower Upper

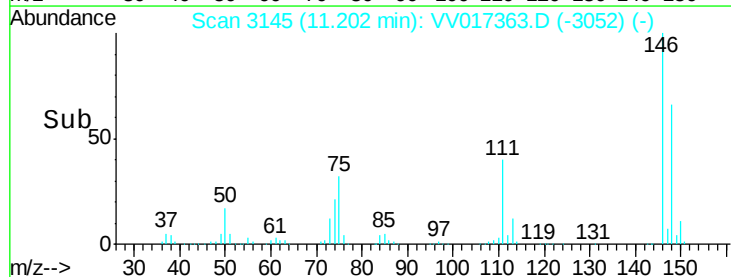
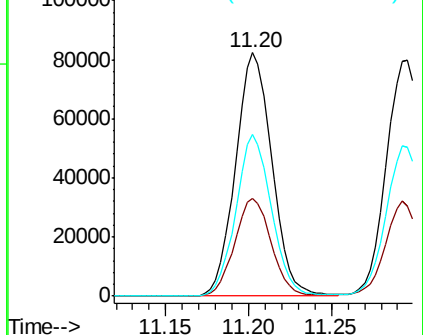
146 100

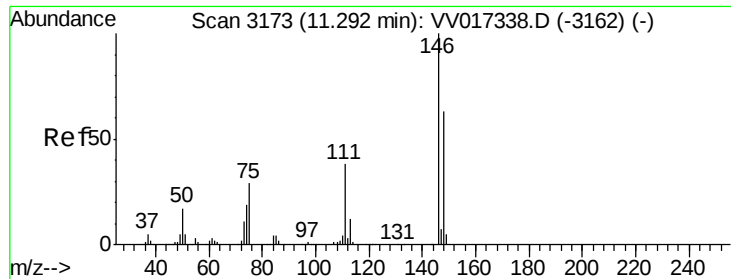
111 40.3 29.2 54.2

148 66.2 44.9 83.5



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 4.779 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

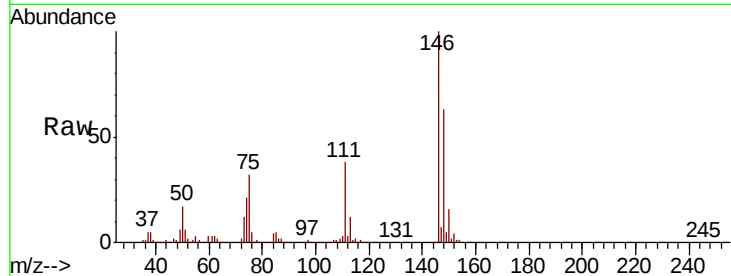
Tot Ion:146 Resp: 126350

Ion Ratio Lower Upper

146 100

111 38.2 27.4 50.8

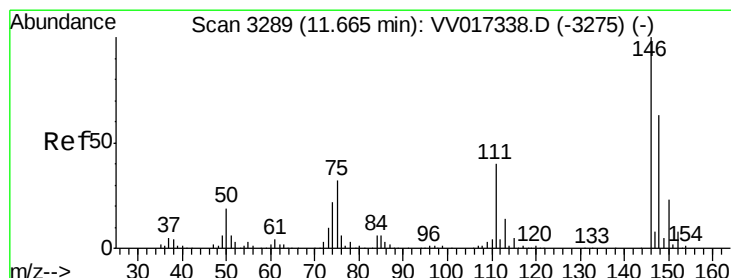
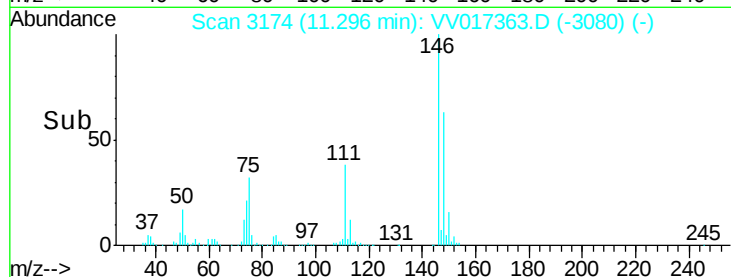
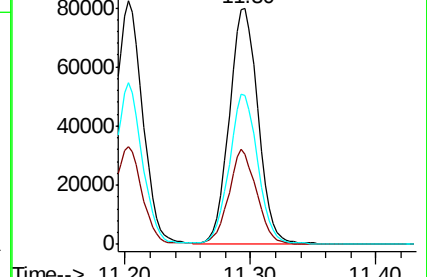
148 63.3 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 4.819 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

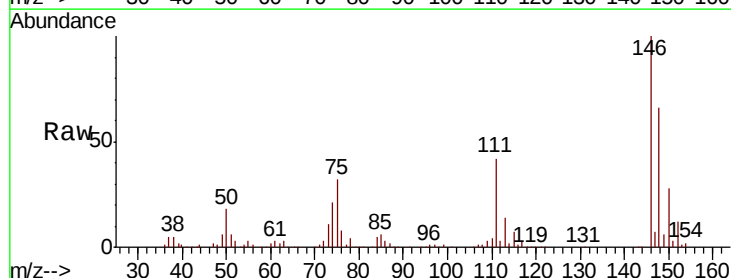
Tgt Ion:146 Resp: 113760

Ion Ratio Lower Upper

146 100

111 42.3 34.4 51.6

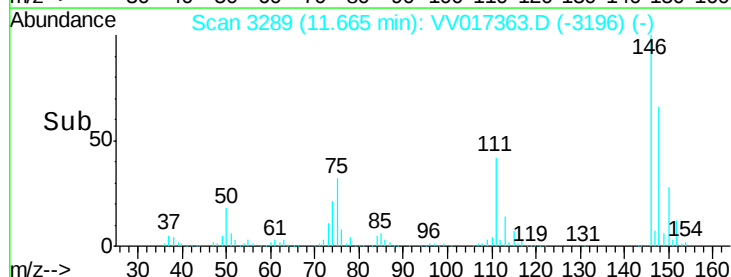
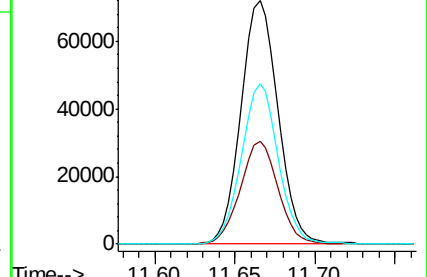
148 66.0 49.9 74.9

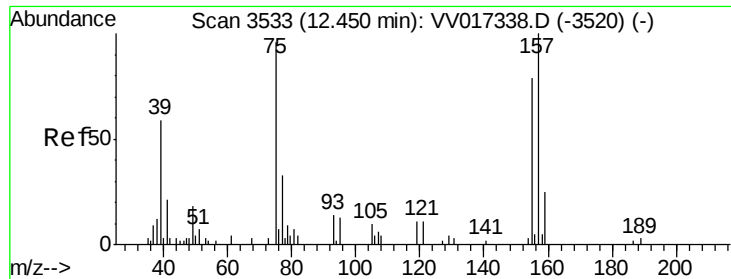


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#67

1,2-Dibromo-3-chloropropane

Concen: 5.348 ug/L

RT: 12.45 min Scan# 3534

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00548

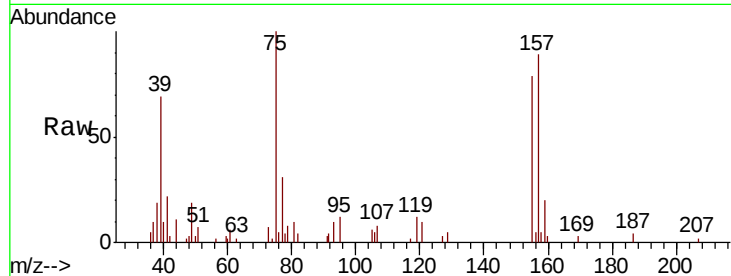
Tot Ion: 75 Resp: 6983

Ion Ratio Lower Upper

75 100

155 79.2 71.1 106.7

157 88.6 88.3 132.5

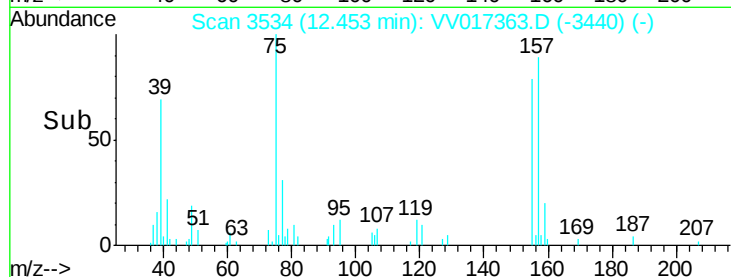


Abundance Ion 75.05 (74.75 to 75.75): VV017363.D (-3520) (-)

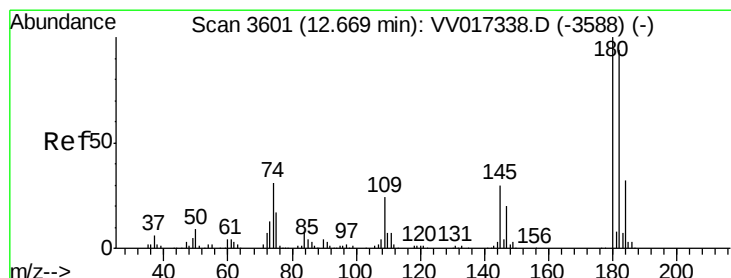
Ion 154.95 (154.65 to 155.65): VV017363.D (-3520) (-)

Ion 156.90 (156.60 to 157.60): VV017363.D (-3520) (-)

Time-->



Time-->



#68

1,3,5-Trichlorobenzene

Concen: 4.740 ug/L

RT: 12.67 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VV017363.D

Acq: 06 Jul 2020 20:04

Tgt Ion: 180 Resp: 99064

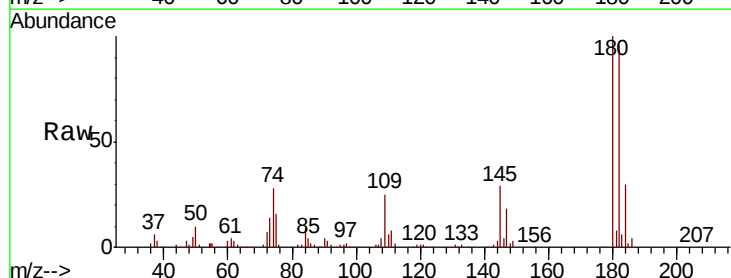
Ion Ratio Lower Upper

180 100

182 96.4 77.4 116.2

184 30.7 24.2 36.4

145 30.1 24.3 36.5



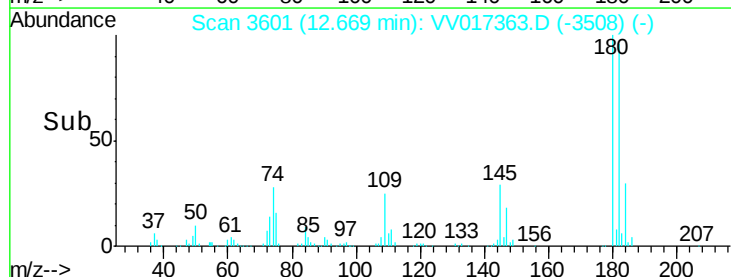
Abundance Ion 180.00 (179.70 to 180.70): VV017363.D (-3588) (-)

Ion 182.00 (181.70 to 182.70): VV017363.D (-3588) (-)

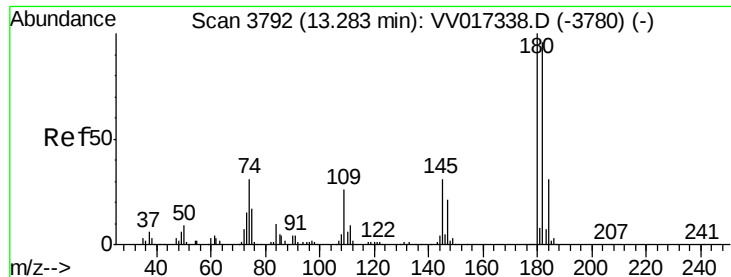
Ion 184.00 (183.70 to 184.70): VV017363.D (-3588) (-)

Ion 145.00 (144.70 to 145.70): VV017363.D (-3588) (-)

Time-->



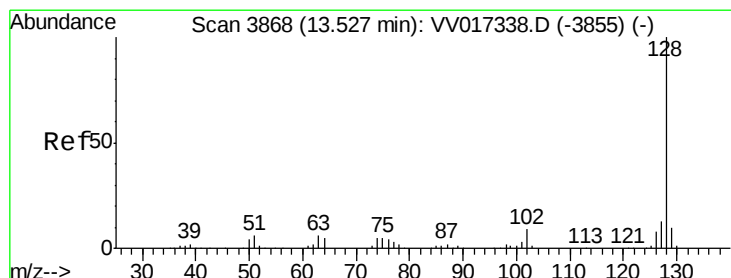
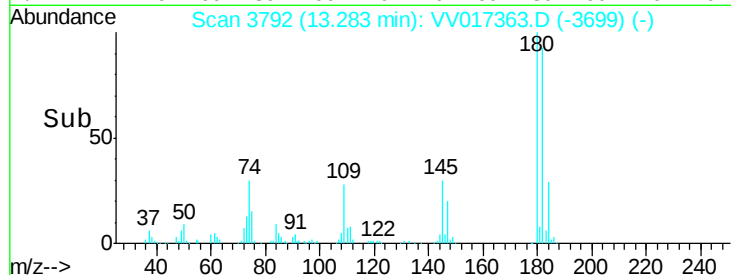
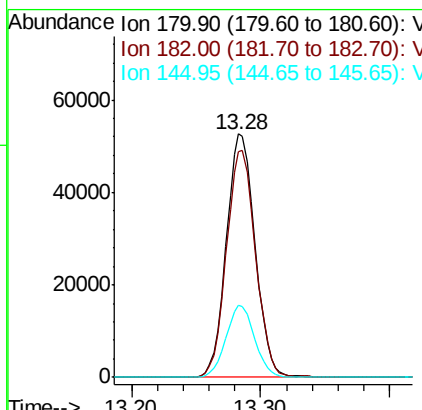
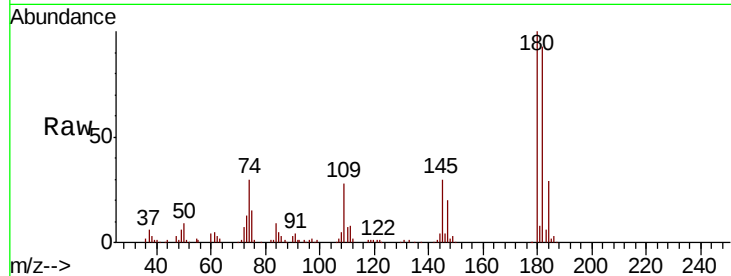
Time-->



#69
 1,2,4-trichlorobenzene
 Concen: 4.722 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV017363.D
 Acq: 06 Jul 2020 20:04

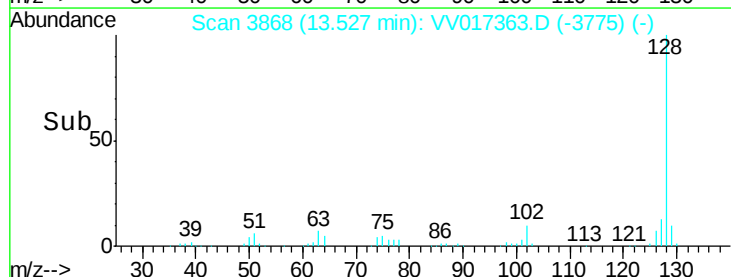
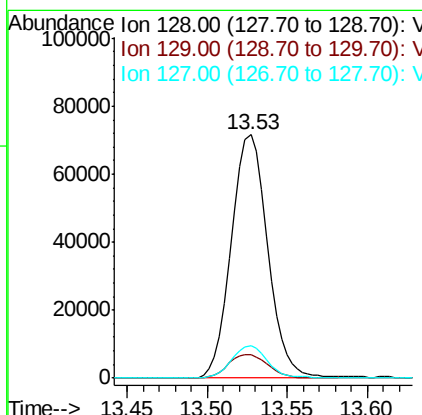
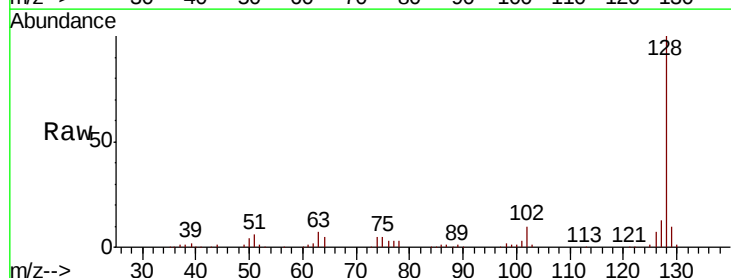
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

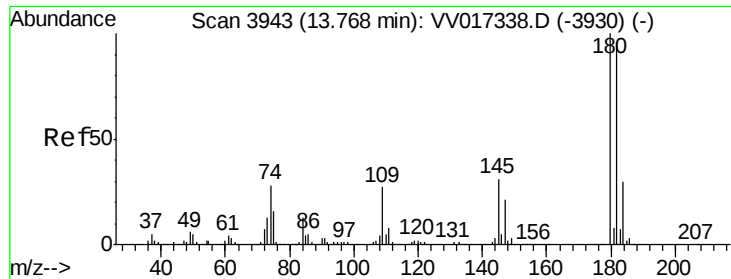
Tot Ion:180 Resp: 81240
 Ion Ratio Lower Upper
 180 100
 182 94.1 76.6 114.8
 145 29.5 25.0 37.6



#70
 Naphthalene
 Concen: 4.566 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.00 min
 Lab File: VV017363.D
 Acq: 06 Jul 2020 20:04

Tgt Ion:128 Resp: 110938
 Ion Ratio Lower Upper
 128 100
 129 10.6 8.8 13.2
 127 13.1 10.5 15.7

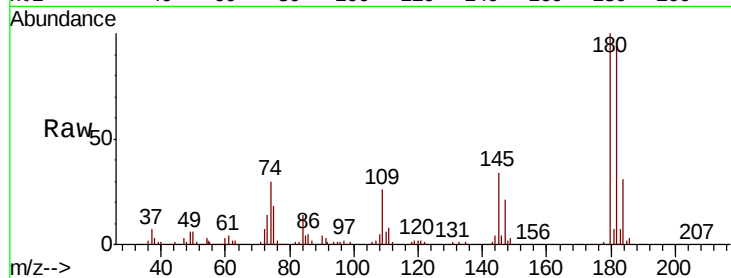




#71
 1,2,3-Trichlorobenzene
 Concen: 4.991 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV017363.D
 Acq: 06 Jul 2020 20:04

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00548

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.4	116.0
145	34.4	25.9	38.9



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

