

Data File : VV012074.D
Acq On : 30 Jul 2019 17:12
Operator : SY/MD
Sample : VSTD0.533
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.533

Quant Time: Jul 31 05:12:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR073119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 31 04:53:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	121177	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	116303	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	60212	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	2875	0.50	ug/L	0.00
7) Chloroethane-d5	1.58	69	2227	0.50	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	5861	0.49	ug/L	0.00
20) 2-Butanone-d5	3.98	46	2693	1.68	ug/L	0.00
24) Chloroform-d	4.40	84	7654	0.50	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	4233	0.49	ug/L	0.00
32) Benzene-d6	5.10	84	13929	0.47	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	3752	0.47	ug/L	0.00
41) Toluene-d8	7.36	98	12658	0.45	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	1629	0.45	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	4918	4.00	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	3019	0.49	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	6070	0.55	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	6467	0.481 ug/L	95
3) Chloromethane	1.25	50	3193	0.497 ug/L	83
5) Vinyl chloride	1.32	62	3525	0.503 ug/L	92
6) Bromomethane	1.53	94	2018	0.464 ug/L	91
8) Chloroethane	1.60	64	2024	0.518 ug/L	95
9) Trichlorofluoromethane	1.77	101	6636	0.488 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2731	0.471 ug/L	93
12) 1,1-Dichloroethene	2.14	96	2556	0.481 ug/L	95
13) Acetone	2.23	43	1990	2.415 ug/L	90
14) Carbon disulfide	2.32	76	6894	0.474 ug/L	99
15) Methyl Acetate	2.49	43	1108	0.607 ug/L #	86
16) Methylene chloride	2.53	84	3139	0.568 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	8294	0.469 ug/L #	93
18) trans-1,2-Dichloroethene	2.78	96	3874	0.489 ug/L	99
19) 1,1-Dichloroethane	3.23	63	6601	0.468 ug/L	94
21) 2-Butanone	4.06	43	2781	1.715 ug/L #	66
22) cis-1,2-Dichloroethene	3.96	96	4071	0.479 ug/L	99
23) Bromochloromethane	4.30	128	1822	0.477 ug/L #	94
25) Chloroform	4.43	83	9945	0.543 ug/L	97
27) 1,2-Dichloroethane	5.18	62	4628	0.459 ug/L #	75
29) 1,1,1-Trichloroethane	4.66	97	7175	0.475 ug/L	96
30) Cyclohexane	4.73	56	4943	0.429 ug/L	98
31) Carbon tetrachloride	4.87	117	6250	0.461 ug/L	99
33) Benzene	5.15	78	14241	0.462 ug/L	100
34) Trichloroethene	5.96	95	4145	0.466 ug/L	88
35) Methylcyclohexane	6.17	83	6242	0.463 ug/L	95
37) 1,2-Dichloropropane	6.22	63	3626	0.509 ug/L #	89
38) Bromodichloromethane	6.56	83	4889	0.467 ug/L	96
39) cis-1,3-Dichloropropene	7.08	75	4727	0.426 ug/L	95
40) 4-Methyl-2-pentanone	7.28	43	16919	4.360 ug/L	96

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 31 04:53:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	14908	0.442	ug/L	96
44) trans-1,3-Dichloropropene	7.70	75	3737	0.417	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	2513	0.473	ug/L	94
47) Tetrachloroethene	8.02	164	3871	0.479	ug/L	87
48) 2-Hexanone	8.19	43	11114	4.118	ug/L	96
49) Dibromochloromethane	8.29	129	2951	0.428	ug/L	94
50) 1,2-Dibromoethane	8.40	107	2308	0.453	ug/L #	99
51) Chlorobenzene	8.93	112	10566	0.463	ug/L	97
52) Ethylbenzene	9.05	91	16745	0.431	ug/L	99
53) m,p-xylene	9.18	106	6360	0.427	ug/L	90
54) o-xylene	9.59	106	6257	0.438	ug/L	97
55) Styrene	9.60	104	10200	0.421	ug/L	98
56) Isopropylbenzene	9.97	105	16834	0.425	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	2717	0.463	ug/L	91
59) 1,2,3-Trichloropropane	10.32	75	1998	0.451	ug/L	95
61) Bromoform	9.77	173	1589	0.444	ug/L #	88
62) 1,3-Dichlorobenzene	11.22	146	8654	0.466	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	9383	0.495	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	7978	0.476	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.48	75	281	0.312	ug/L	87
67) 1,3,5-Trichlorobenzene	12.69	180	7221	0.475	ug/L	96
68) 1,2,4-trichlorobenzene	13.31	180	5680	0.463	ug/L	99
69) Naphthalene	13.55	128	6484	0.392	ug/L #	96
70) 1,2,3-Trichlorobenzene	13.79	180	4939	0.452	ug/L	99

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

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```
ALS Vial      : 3      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD0.533

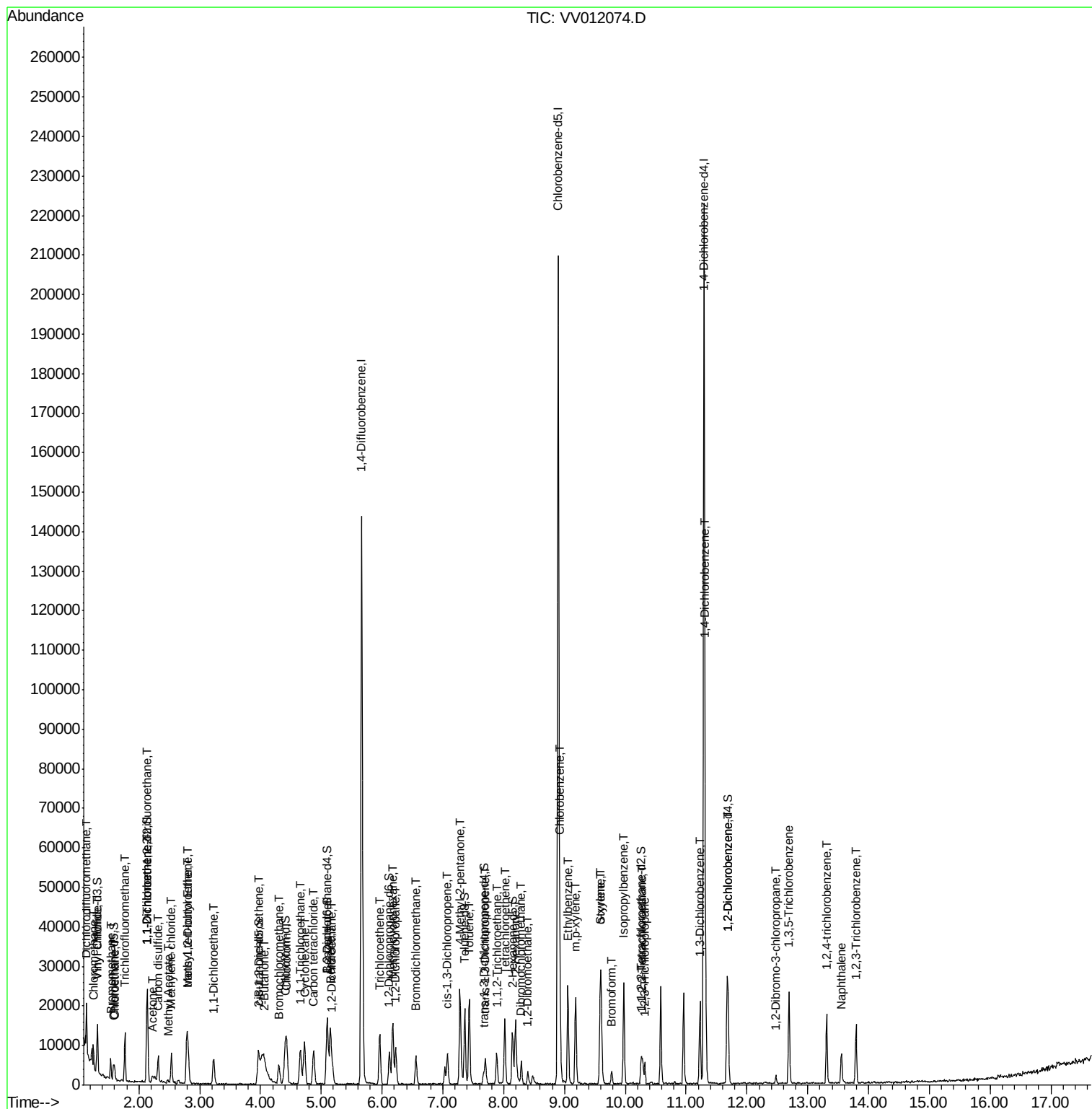
Quant Time: Jul 31 05:12:35 2019

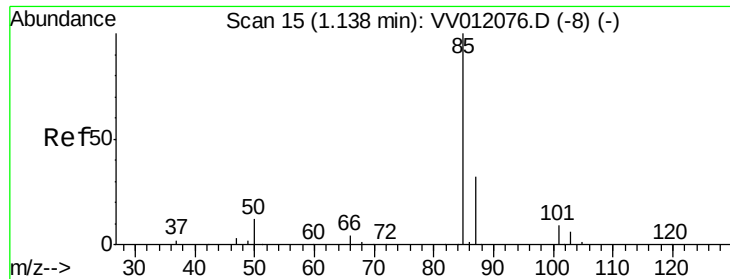
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0MVTR073119WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Jul 31 04:53:35 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.481 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

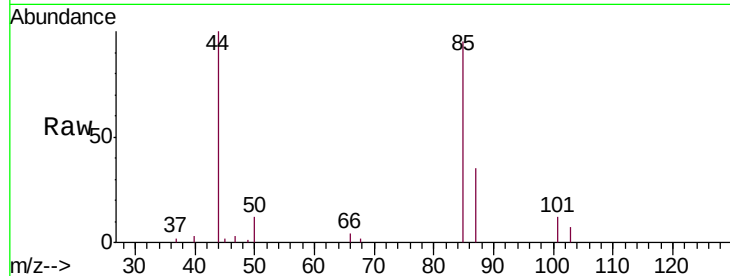
VSTD0.533

Tgt Ion: 85 Resp: 6467

Ion Ratio Lower Upper

85 100

87 34.5 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV012076.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012076.D (-8) (-)

1.14

8000

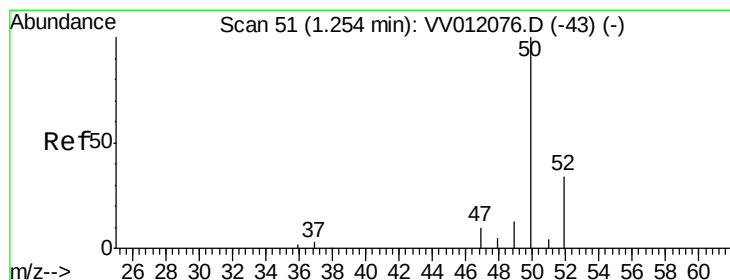
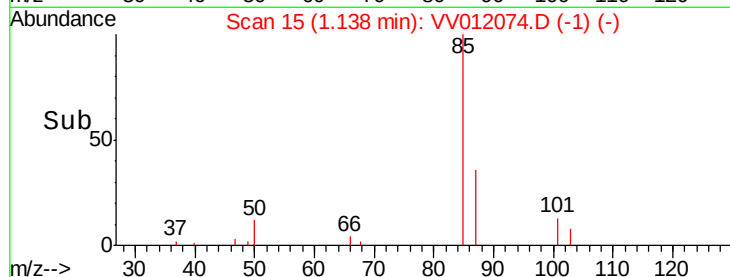
6000

4000

2000

0

Time-->



#3

Chloromethane

Concen: 0.497 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012074.D

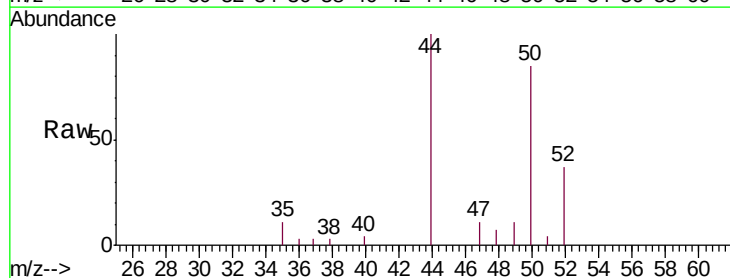
Acq: 30 Jul 2019 17:12

Tgt Ion: 50 Resp: 3193

Ion Ratio Lower Upper

50 100

52 43.7 23.7 43.9



Abundance Ion 50.05 (49.75 to 50.75): VV012074.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VV012074.D (-1) (-)

1.25

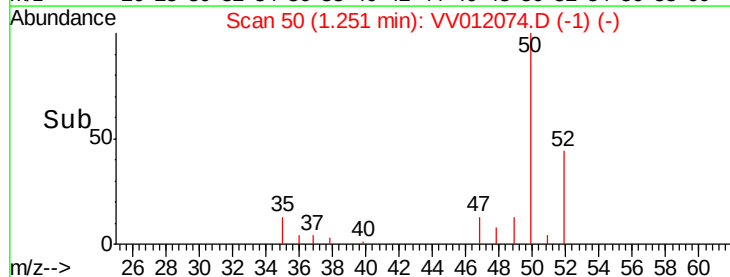
3000

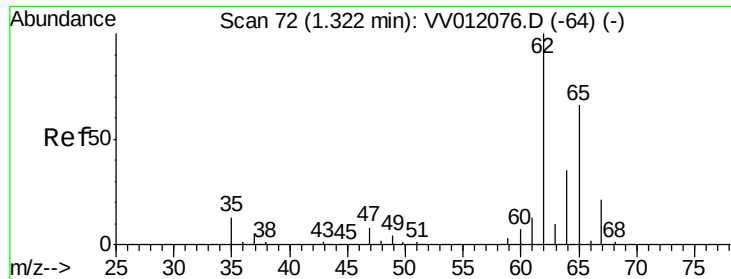
2000

1000

0

Time-->





#5

Vinyl chloride

Concen: 0.503 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

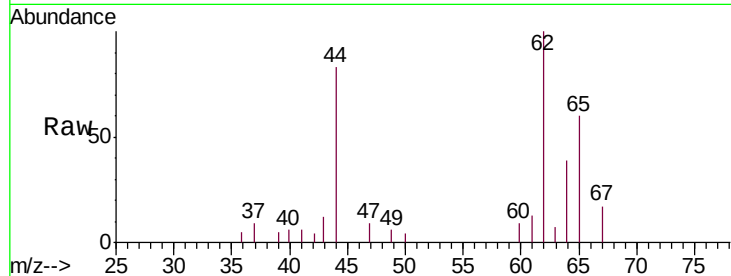
VSTD0.533

Tgt Ion: 62 Resp: 3525

Ion Ratio Lower Upper

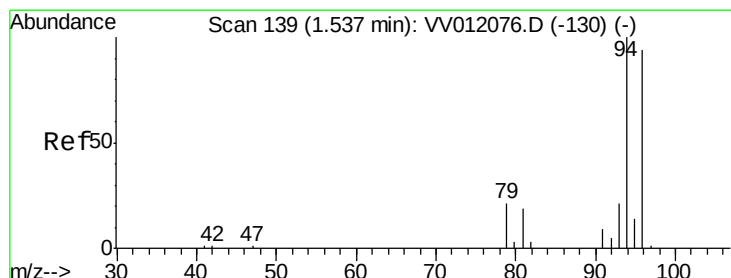
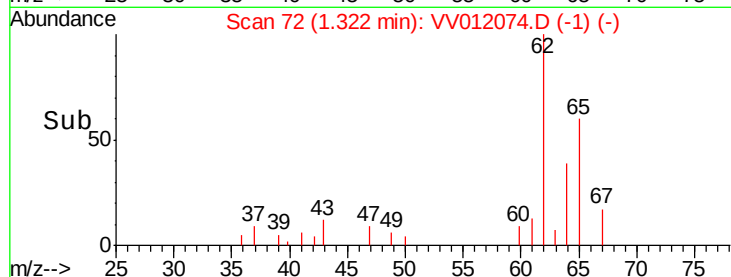
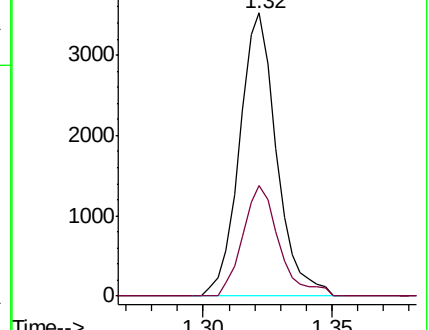
62 100

64 39.2 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VV012076.D (-64) (-)

Ion 64.10 (63.80 to 64.80): VV012076.D (-64) (-)



#6

Bromomethane

Concen: 0.464 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV012074.D

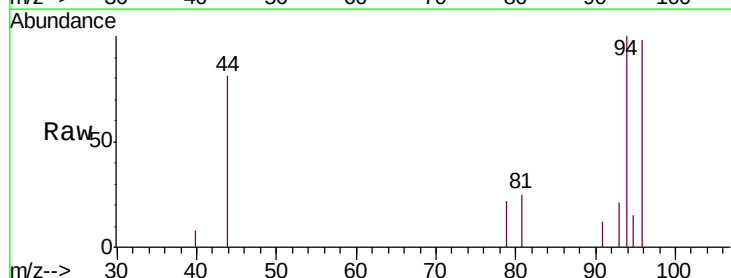
Acq: 30 Jul 2019 17:12

Tgt Ion: 94 Resp: 2018

Ion Ratio Lower Upper

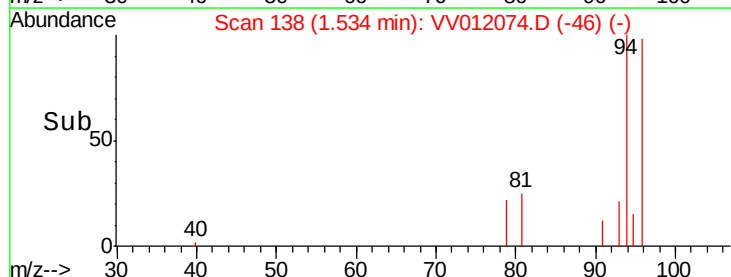
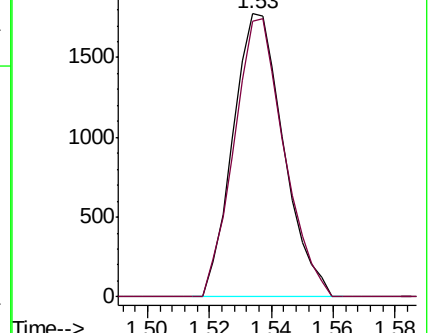
94 100

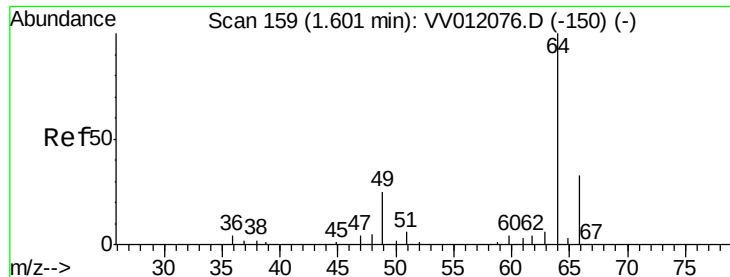
96 84.8 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VV012076.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV012076.D (-130) (-)





#8

Chloroethane

Concen: 0.518 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

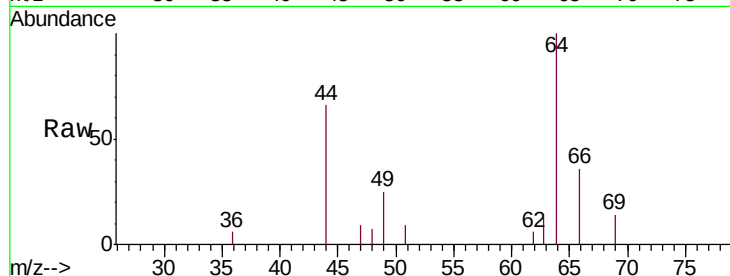
VSTD0.533

Tgt Ion: 64 Resp: 2024

Ion Ratio Lower Upper

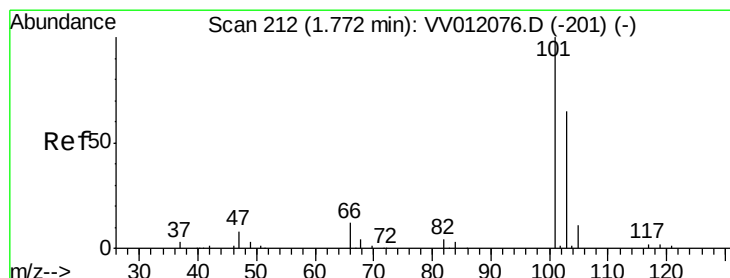
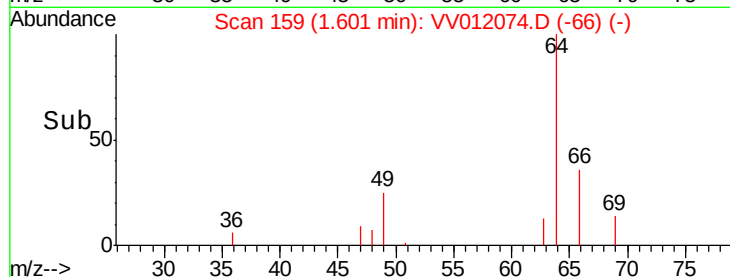
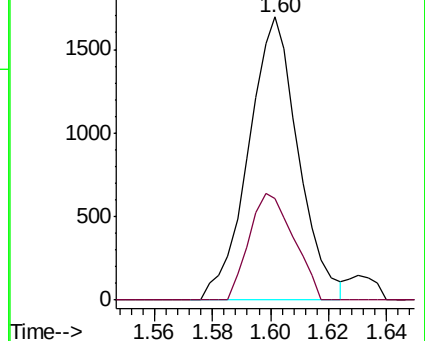
64 100

66 35.9 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VV012076.D (-150) (-)

Ion 66.05 (65.75 to 66.75): VV012076.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 0.488 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012074.D

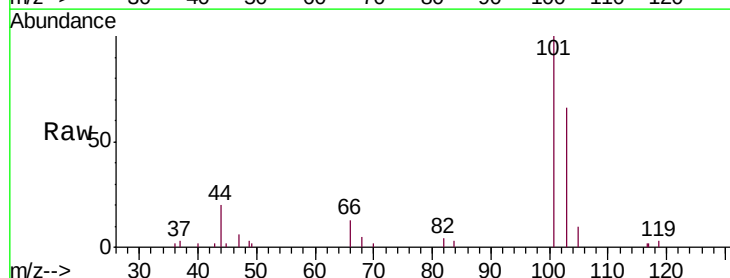
Acq: 30 Jul 2019 17:12

Tgt Ion: 101 Resp: 6636

Ion Ratio Lower Upper

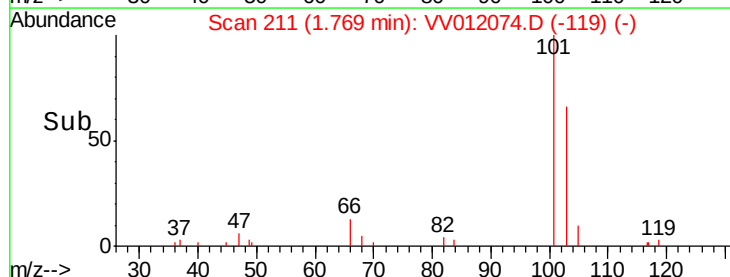
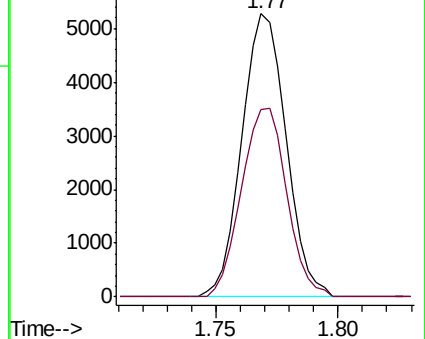
101 100

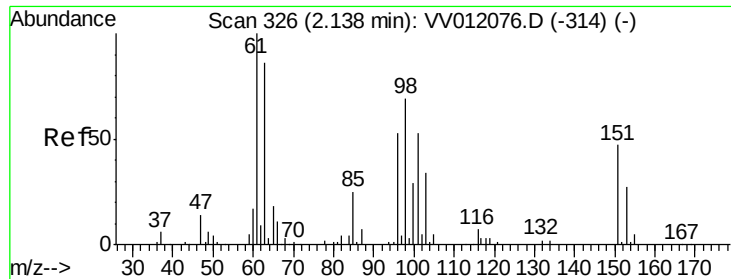
103 68.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VV012076.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012076.D (-201) (-)





#10

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

Concen: 0.471 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.533

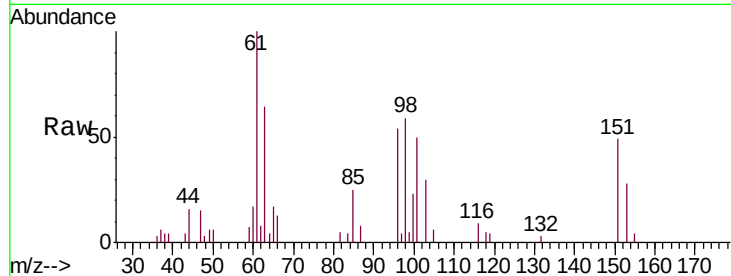
Tgt Ion:101 Resp: 2731

Ion Ratio Lower Upper

101 100

85 46.6 37.4 56.2

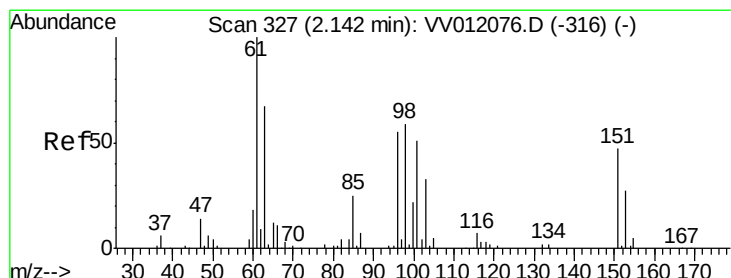
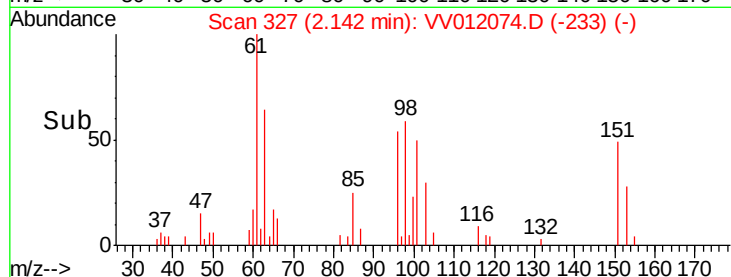
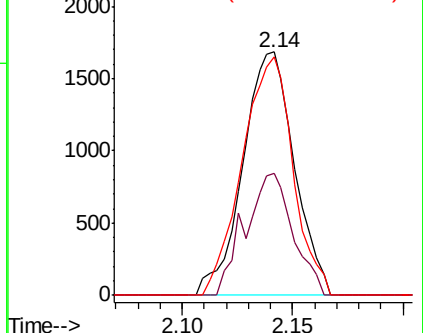
151 96.7 69.1 103.7



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: 0.481 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

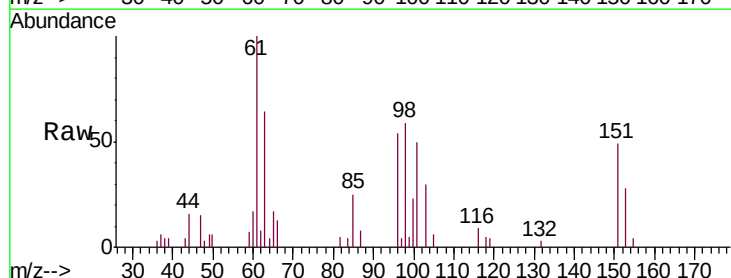
Tgt Ion: 96 Resp: 2556

Ion Ratio Lower Upper

96 100

61 186.5 126.9 235.7

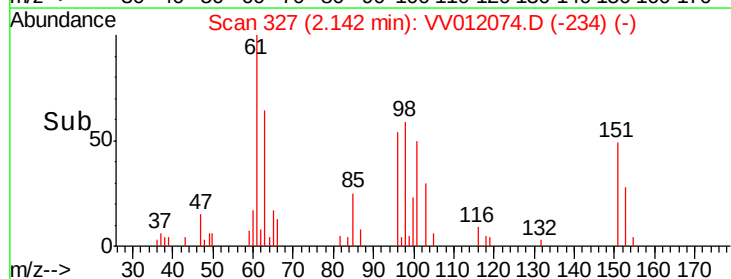
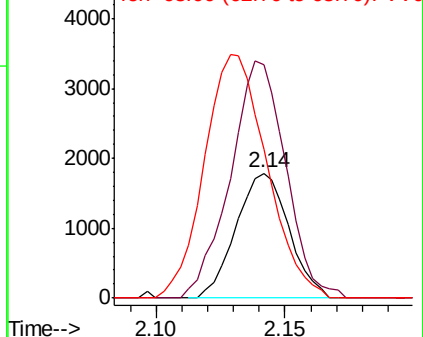
63 118.5 87.6 162.8

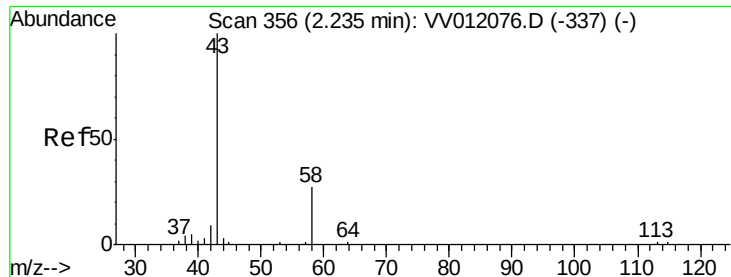


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 2.415 ug/L

RT: 2.23 min Scan# 354

Delta R.T. -0.01 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

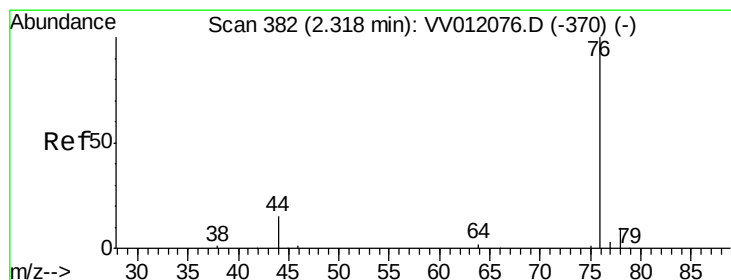
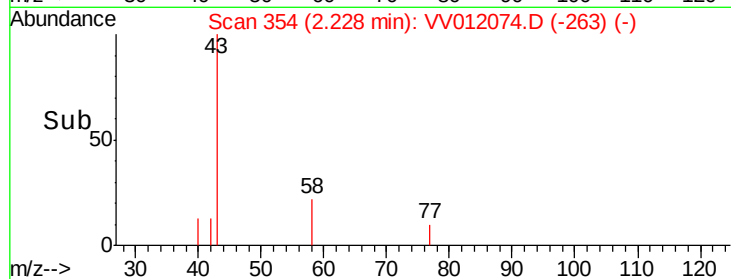
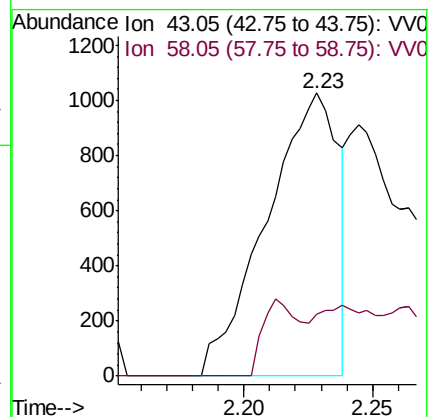
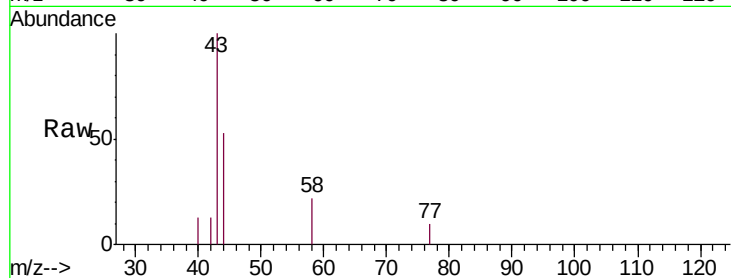
VSTD0.533

Tgt Ion: 43 Resp: 1990

Ion Ratio Lower Upper

43 100

58 20.4 0.0 51.0



#14

Carbon disulfide

Concen: 0.474 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV012074.D

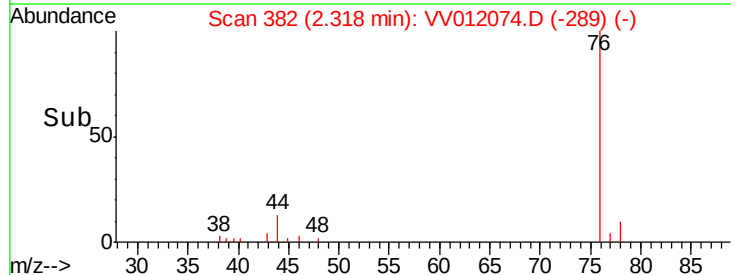
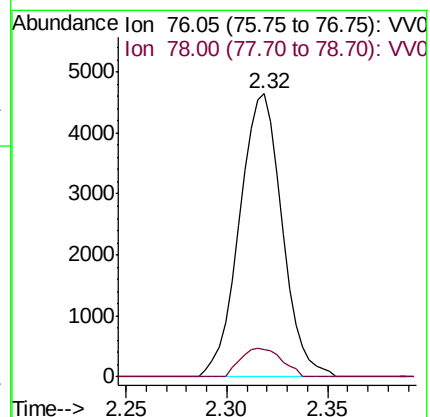
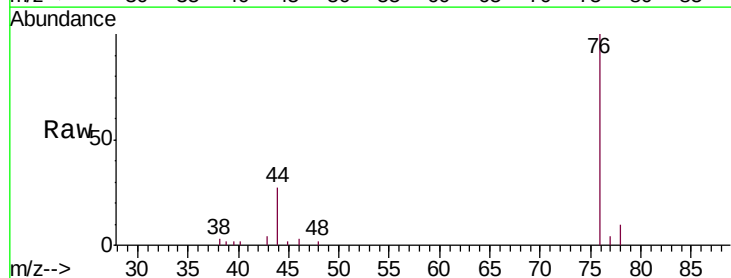
Acq: 30 Jul 2019 17:12

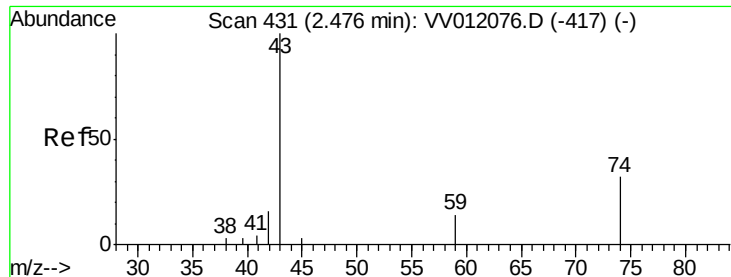
Tgt Ion: 76 Resp: 6894

Ion Ratio Lower Upper

76 100

78 9.7 7.9 11.9





#15

Methyl Acetate

Concen: 0.607 ug/L

RT: 2.49 min Scan# 435

Delta R.T. 0.01 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

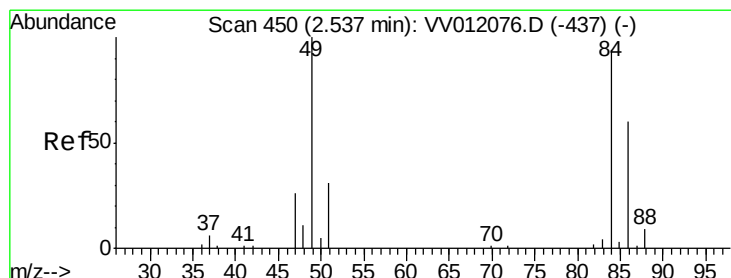
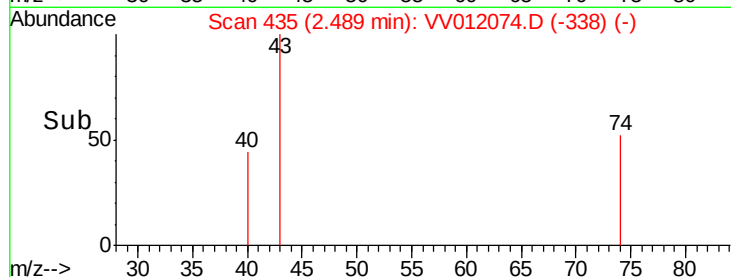
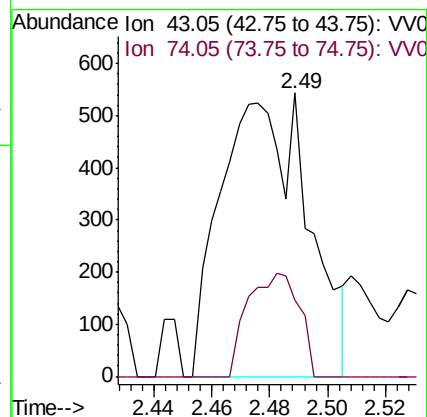
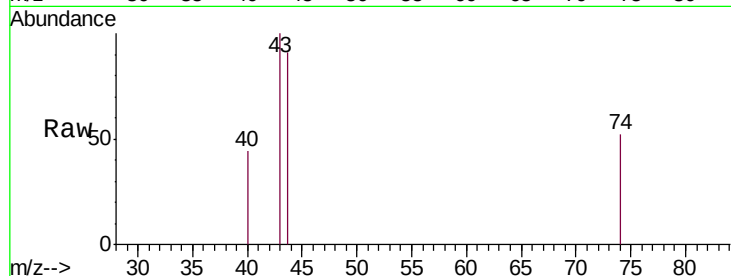
VSTD0.533

Tgt Ion: 43 Resp: 1108

Ion Ratio Lower Upper

43 100

74 21.8 23.4 35.0#



#16

Methylene chloride

Concen: 0.568 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

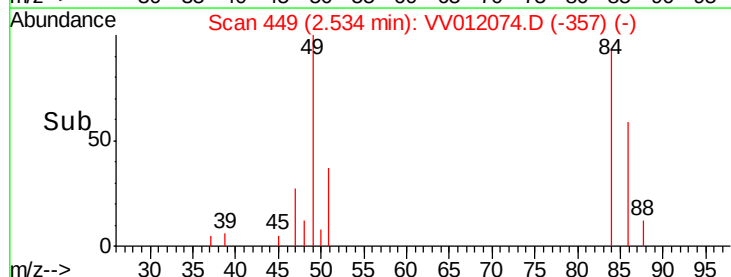
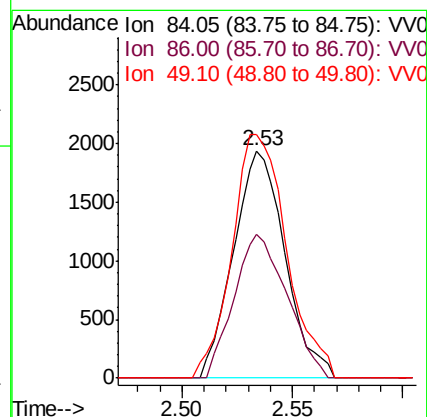
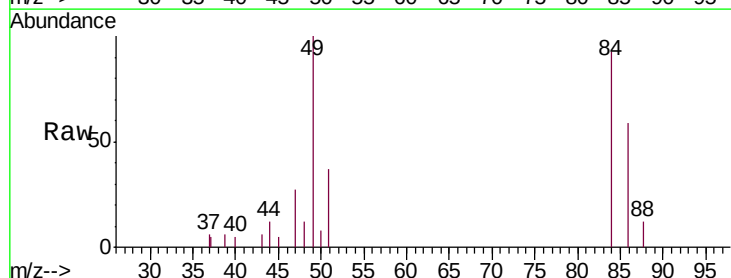
Tgt Ion: 84 Resp: 3139

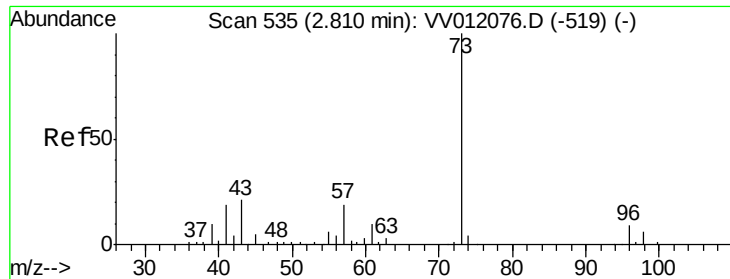
Ion Ratio Lower Upper

84 100

86 63.4 45.0 83.6

49 107.2 74.4 138.2

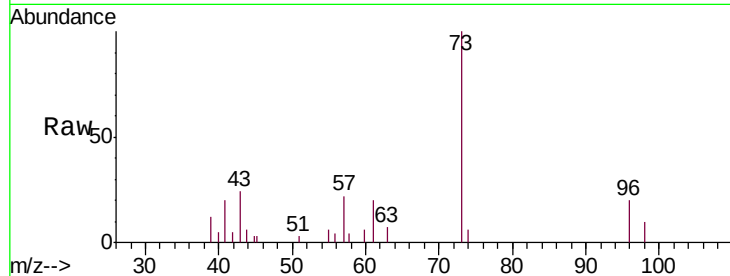




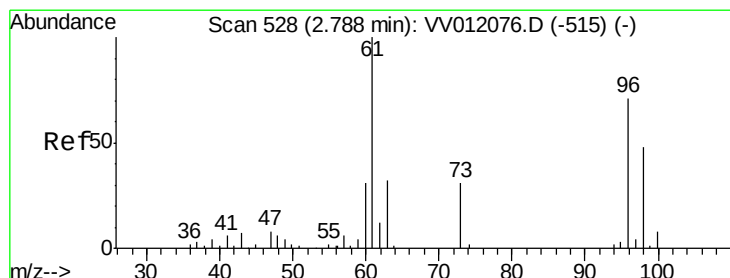
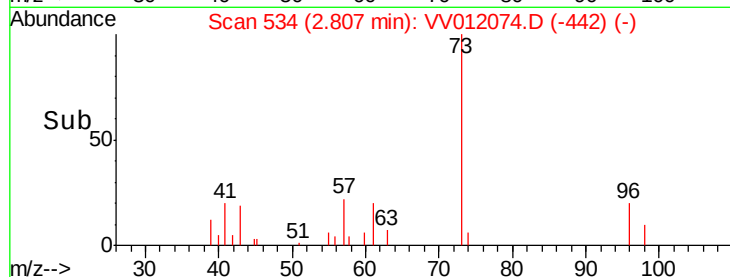
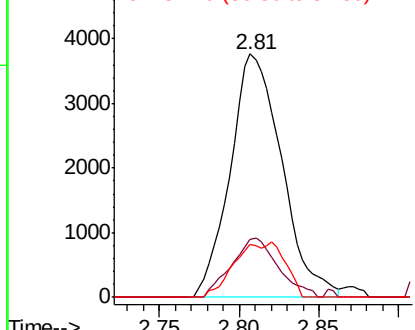
#17
Methyl tert-butyl Ether
Concen: 0.469 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.533

Tgt Ion: 73 Resp: 8294
Ion Ratio Lower Upper
73 100
43 22.0 17.2 25.8
57 12.5 15.1 22.7#

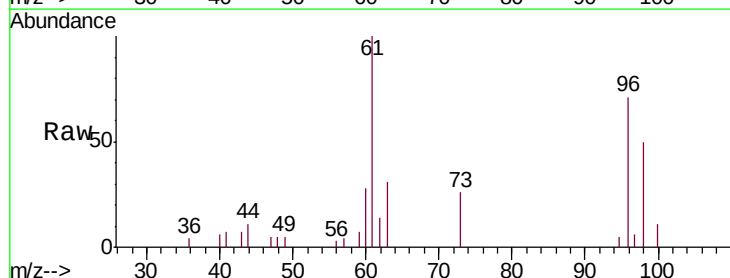


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

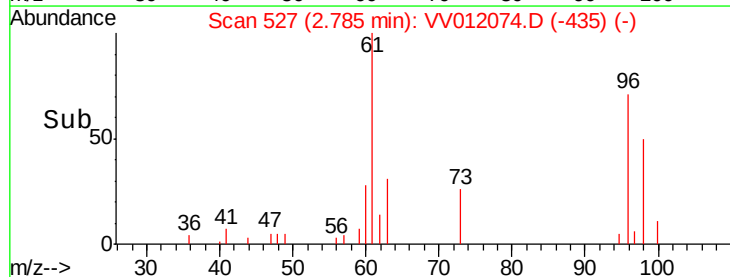
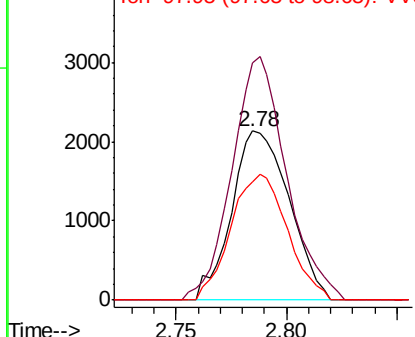


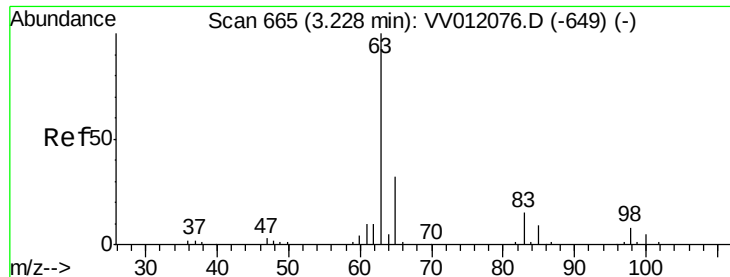
#18
trans-1,2-Dichloroethene
Concen: 0.489 ug/L
RT: 2.78 min Scan# 527
Delta R.T. -0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Tgt Ion: 96 Resp: 3874
Ion Ratio Lower Upper
96 100
61 140.4 99.0 184.0
98 69.9 47.9 88.9



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

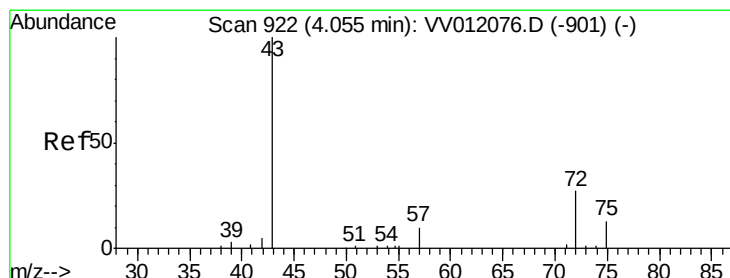
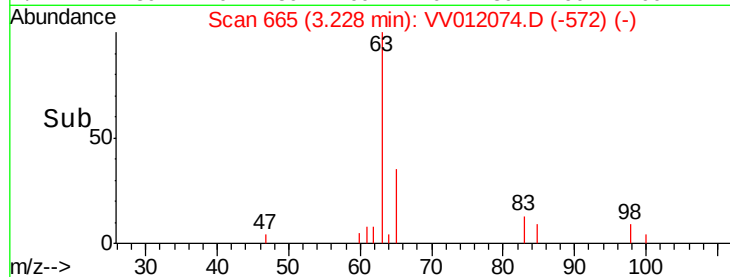
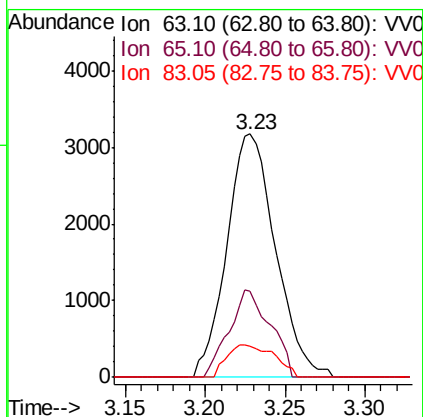
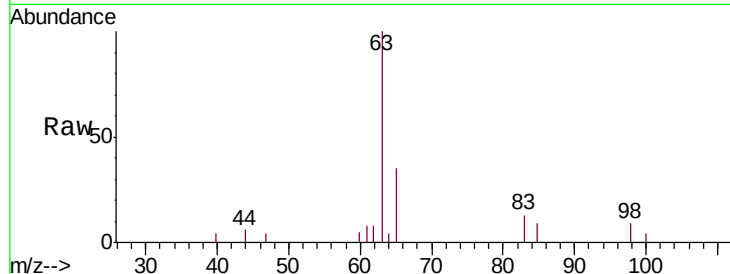




#19
 1,1-Dichloroethane
 Concen: 0.468 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

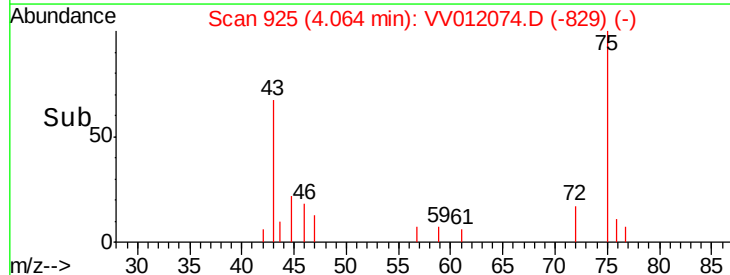
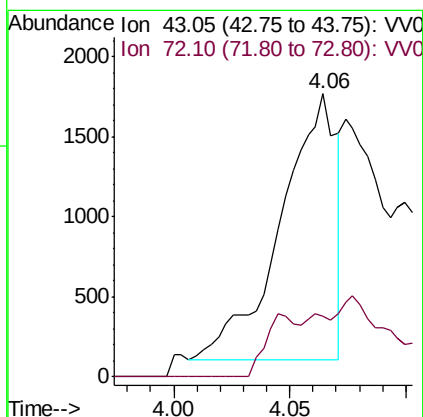
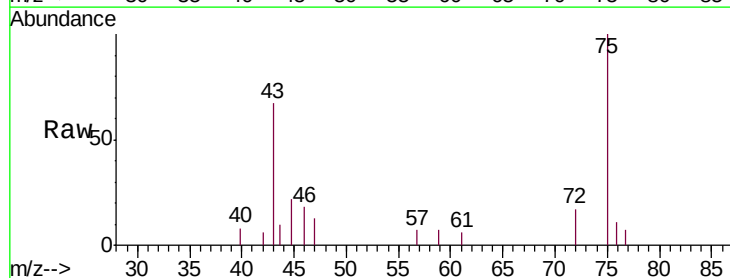
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.533

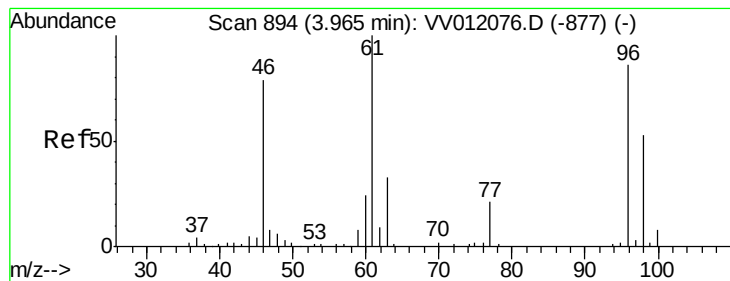
Tgt Ion: 63 Resp: 6601
 Ion Ratio Lower Upper
 63 100
 65 35.2 22.3 41.3
 83 12.9 10.4 19.2



#21
 2-Butanone
 Concen: 1.715 ug/L
 RT: 4.06 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Tgt Ion: 43 Resp: 2781
 Ion Ratio Lower Upper
 43 100
 72 10.4 14.0 42.0#





#22

cis-1,2-Dichloroethene

Concen: 0.479 ug/L

RT: 3.96 min Scan# 893

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.533

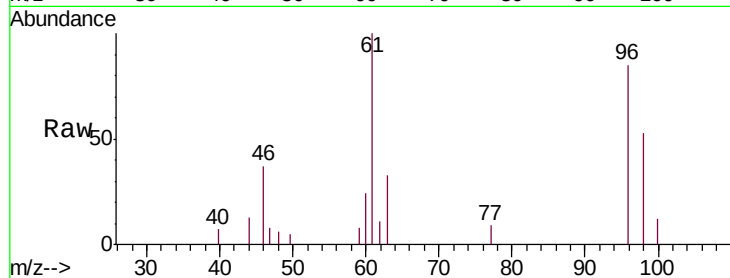
Tgt Ion: 96 Resp: 4071

Ion Ratio Lower Upper

96 100

61 117.8 81.5 151.5

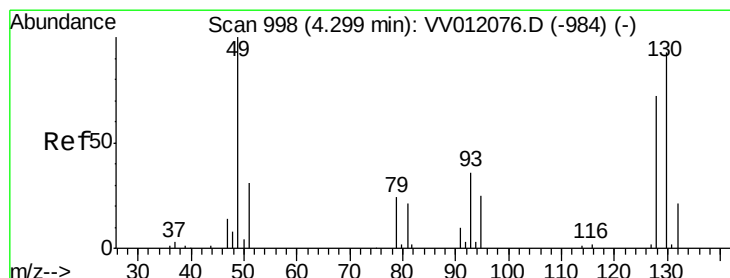
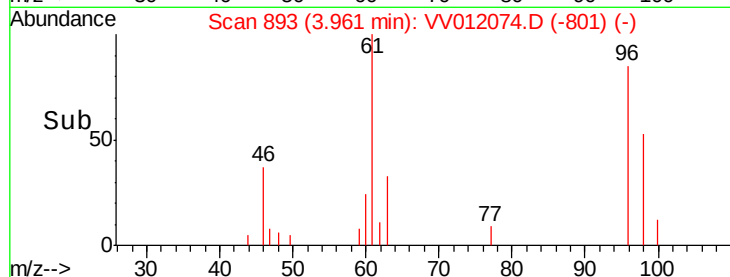
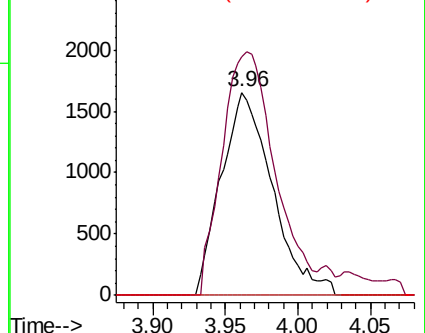
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV012076.D (-877) (-)

Ion 61.05 (60.75 to 61.75): VV012076.D (-877) (-)

Ion 68.15 (67.85 to 68.85): VV012076.D (-877) (-)



#23

Bromochloromethane

Concen: 0.477 ug/L

RT: 4.30 min Scan# 998

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Tgt Ion: 128 Resp: 1822

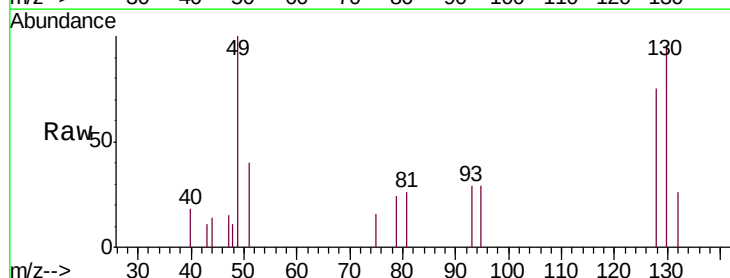
Ion Ratio Lower Upper

128 100

49 132.7 97.9 181.7

130 127.0 90.9 168.9

51 53.0 34.6 51.8#

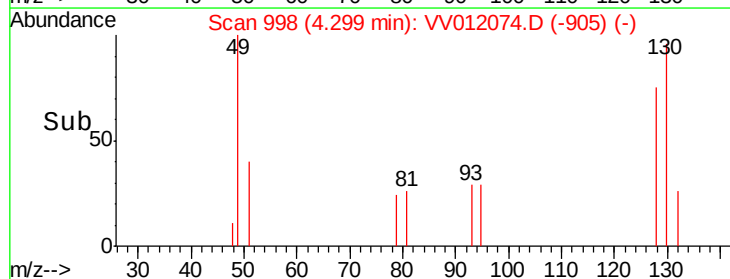
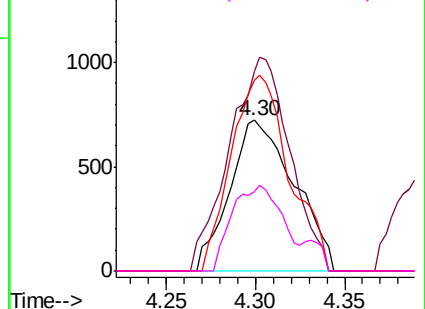


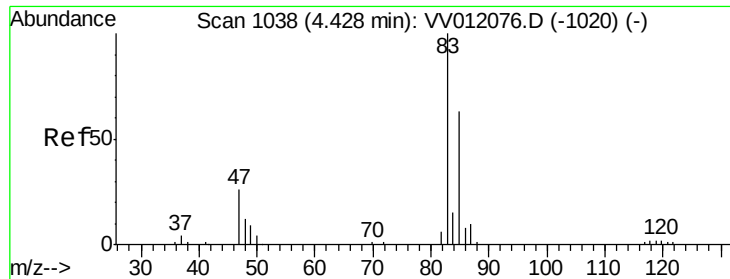
Abundance Ion 127.90 (127.60 to 128.60): VV012076.D (-984) (-)

Ion 49.10 (48.80 to 49.80): VV012076.D (-984) (-)

Ion 129.95 (129.65 to 130.65): VV012076.D (-984) (-)

Ion 51.05 (50.75 to 51.75): VV012076.D (-984) (-)

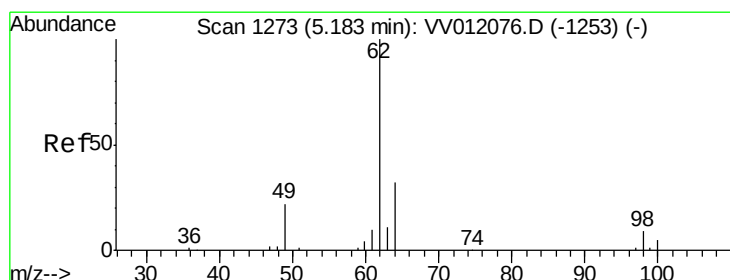
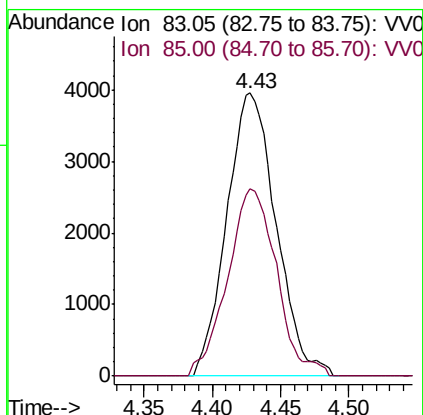
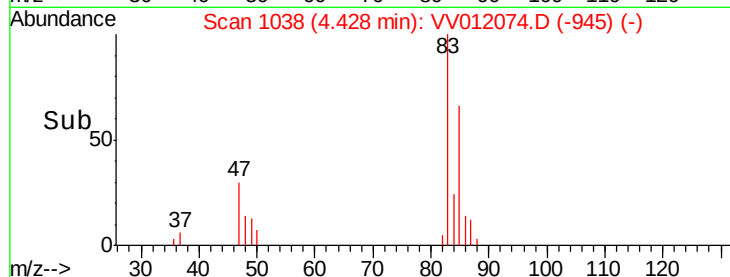
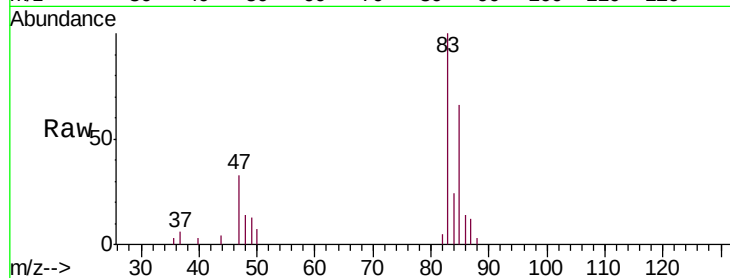




#25
 Chloroform
 Concen: 0.543 ug/L
 RT: 4.43 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

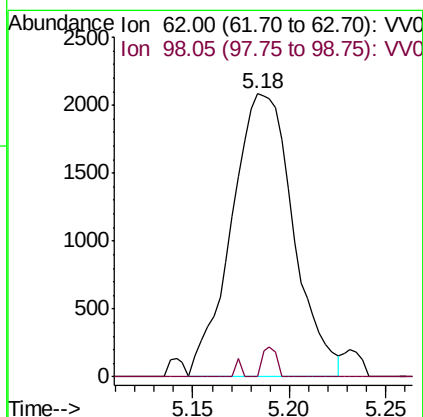
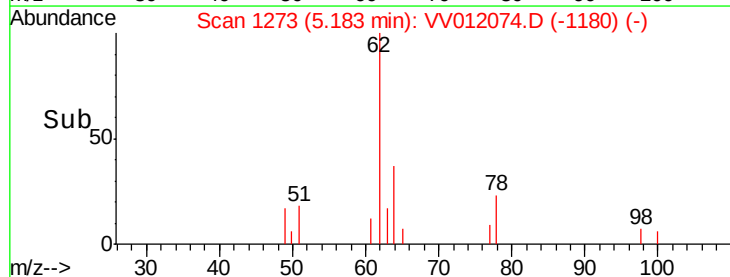
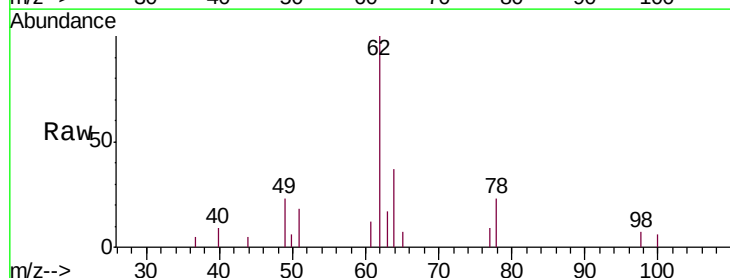
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.533

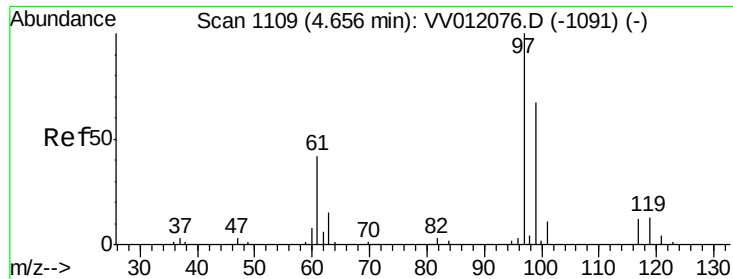
Tgt Ion: 83 Resp: 9945
 Ion Ratio Lower Upper
 83 100
 85 66.2 44.7 83.1



#27
 1,2-Dichloroethane
 Concen: 0.459 ug/L
 RT: 5.18 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Tgt Ion: 62 Resp: 4628
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.3 10.9#

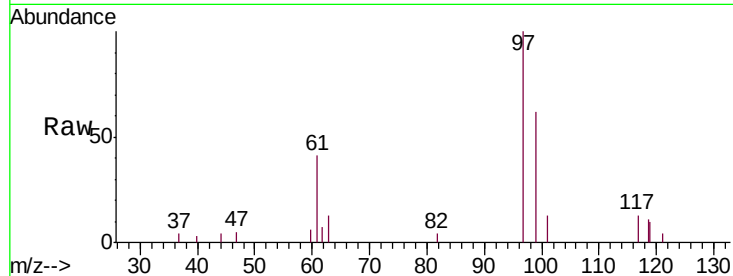




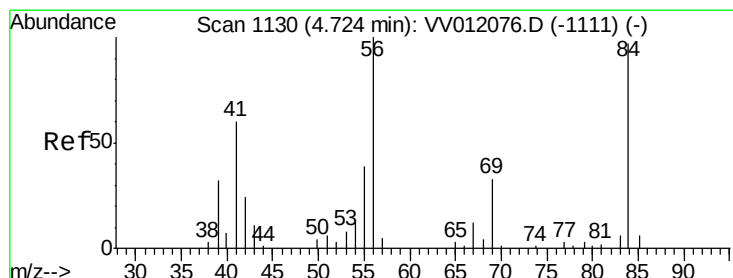
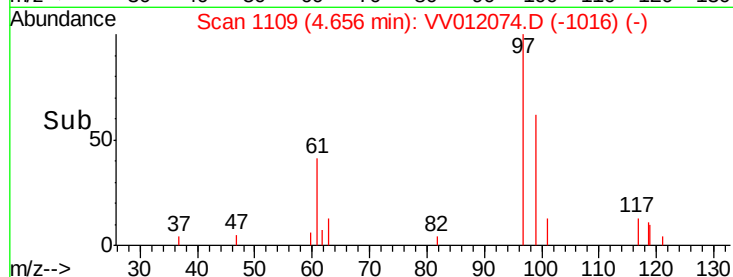
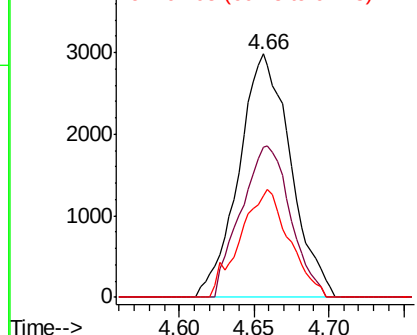
#29
 1,1,1-Trichloroethane
 Concen: 0.475 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.533

Tgt Ion: 97 Resp: 7175
 Ion Ratio Lower Upper
 97 100
 99 59.5 51.7 77.5
 61 41.8 34.2 51.2

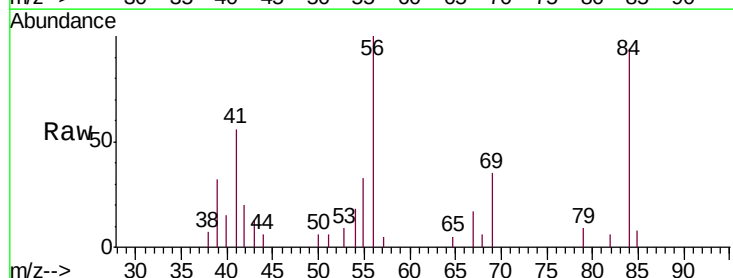


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

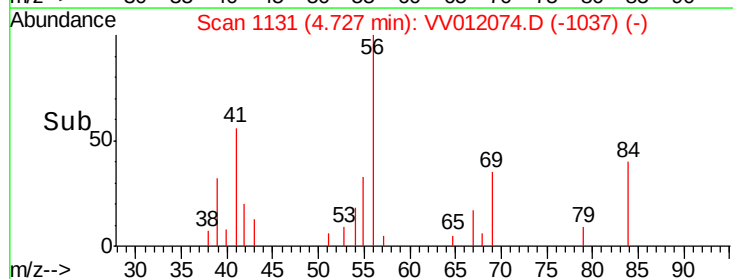
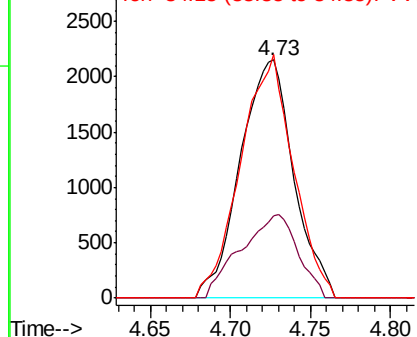


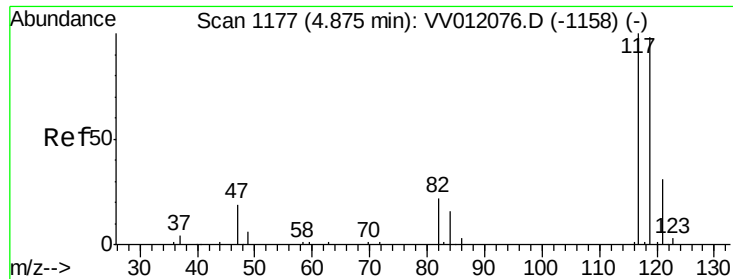
#30
 Cyclohexane
 Concen: 0.429 ug/L
 RT: 4.73 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Tgt Ion: 56 Resp: 4943
 Ion Ratio Lower Upper
 56 100
 69 37.5 26.0 39.0
 84 100.1 79.9 119.9



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 0.461 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

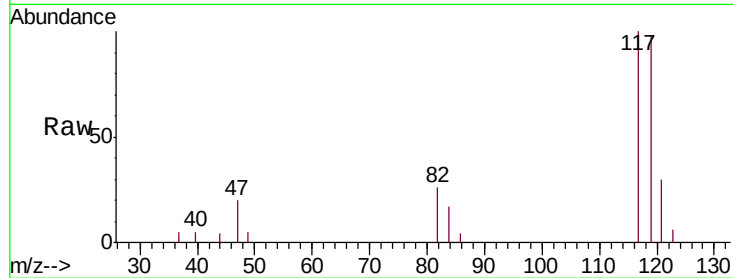
VSTD0.533

Tgt Ion:117 Resp: 6250

Ion Ratio Lower Upper

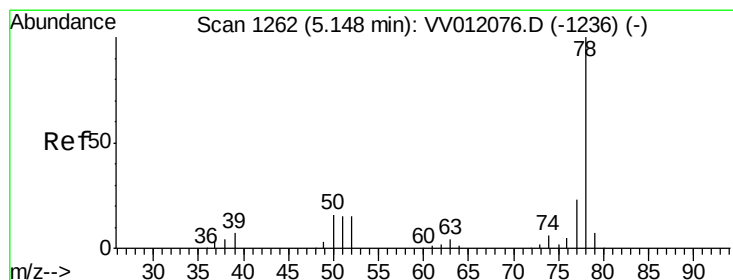
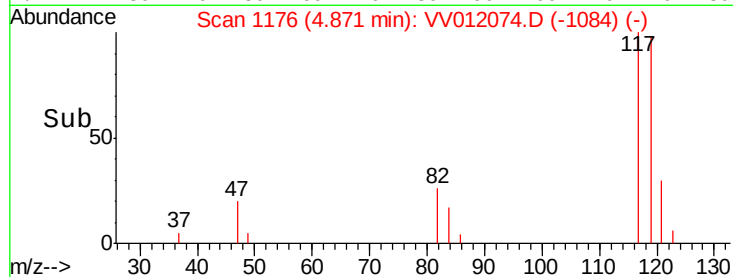
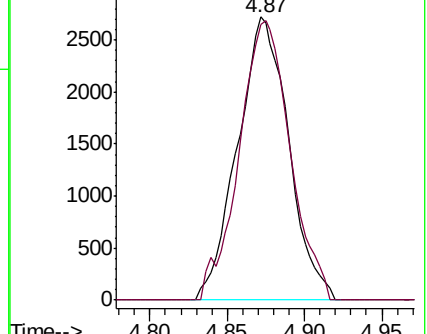
117 100

119 98.3 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.462 ug/L

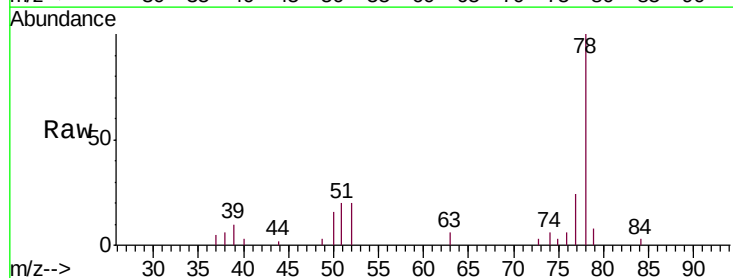
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

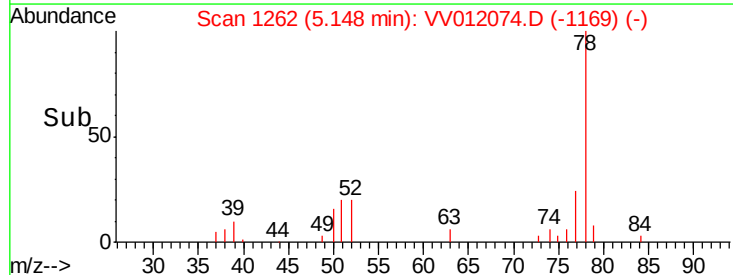
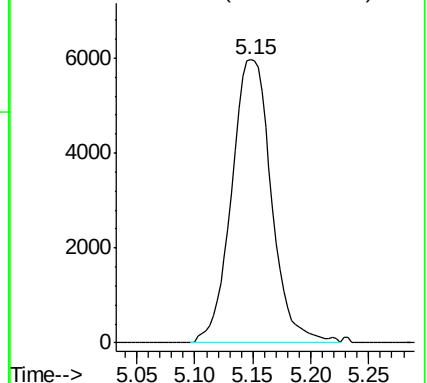
Lab File: VV012074.D

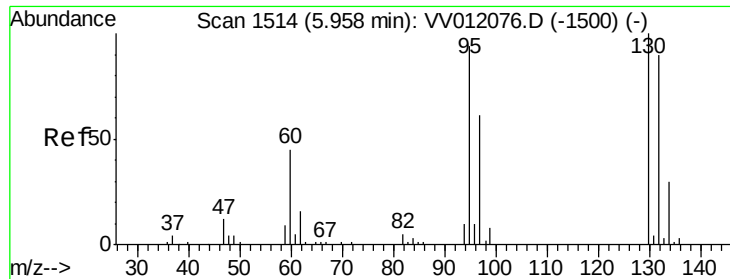
Acq: 30 Jul 2019 17:12

Tgt Ion: 78 Resp: 14241



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.466 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.533

Tgt Ion: 95 Resp: 4145

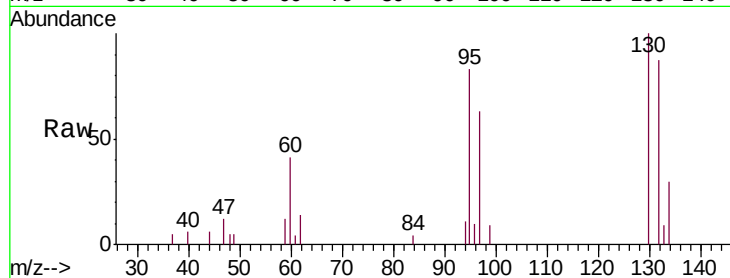
Ion Ratio Lower Upper

95 100

97 75.4 45.4 84.2

132 104.5 67.0 124.4

130 120.1 74.3 137.9

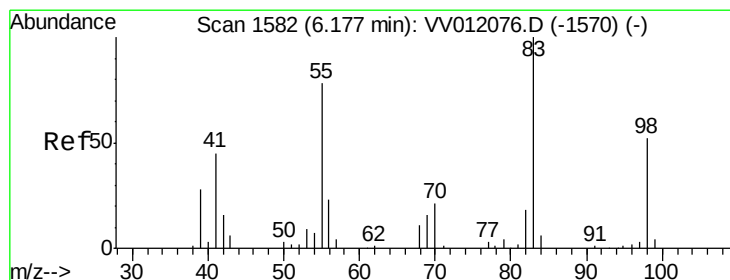
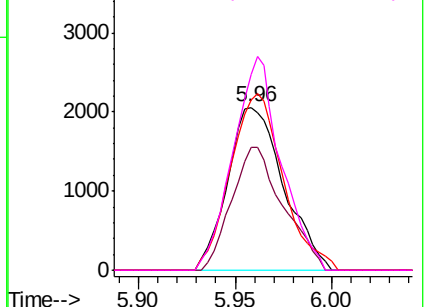
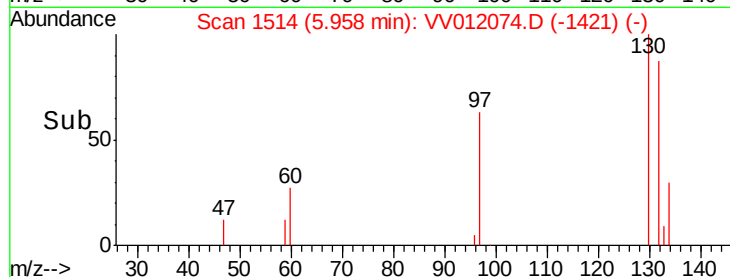


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.463 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

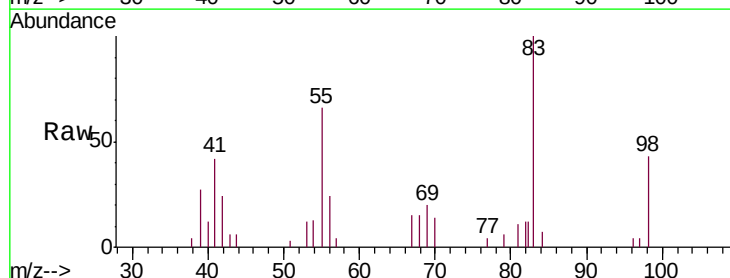
Tgt Ion: 83 Resp: 6242

Ion Ratio Lower Upper

83 100

55 72.3 59.9 89.9

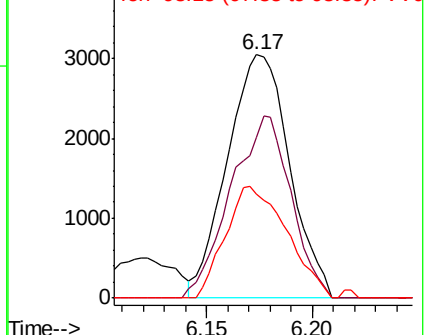
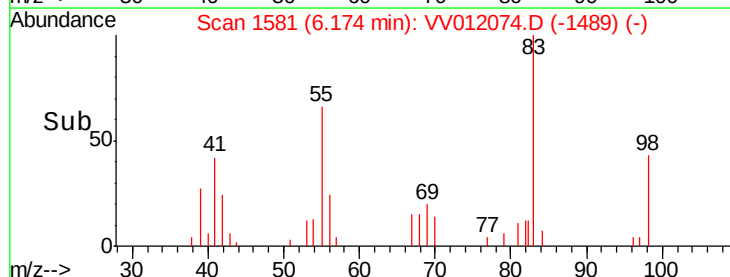
98 45.2 40.8 61.2

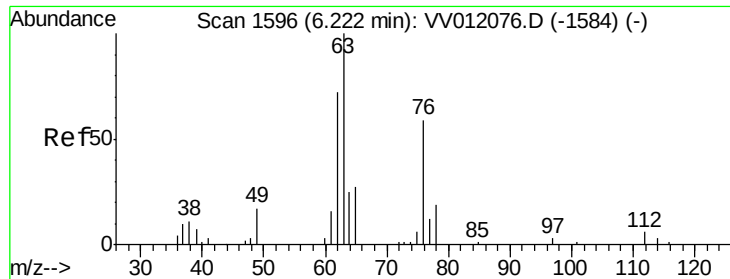


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

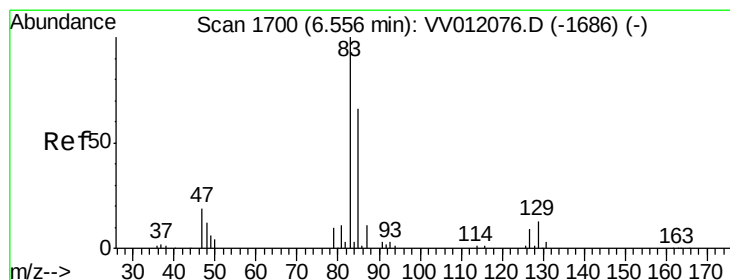
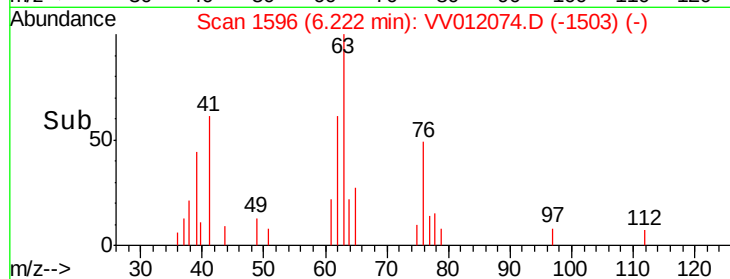
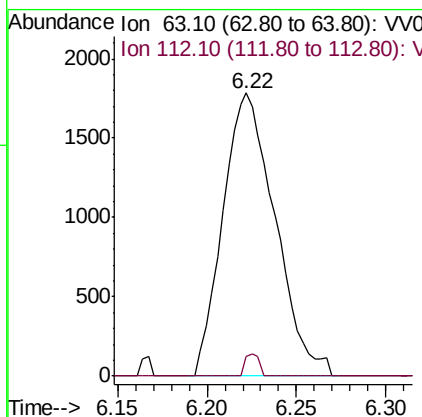
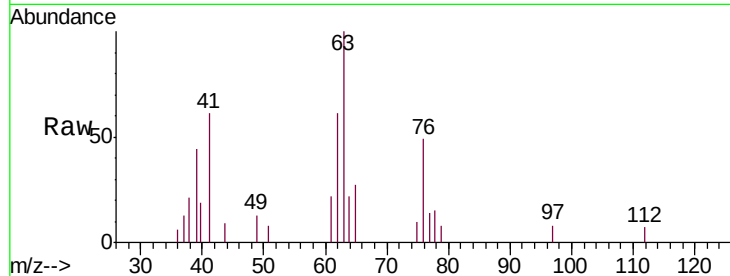




#37
 1,2-Dichloropropane
 Concen: 0.509 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

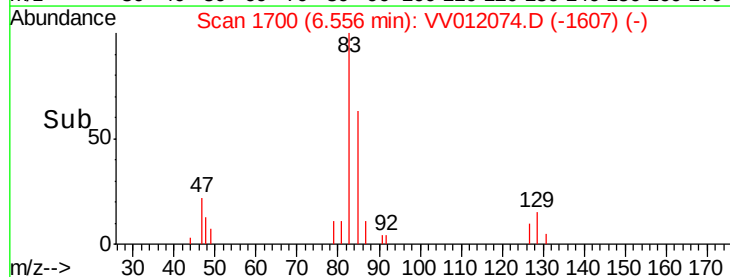
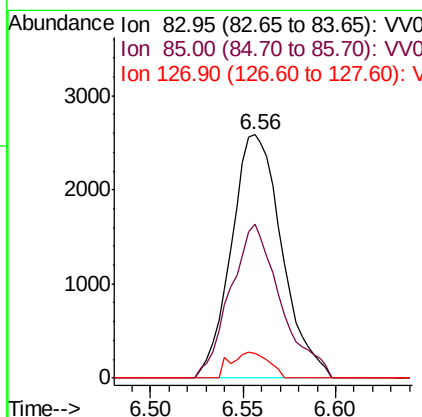
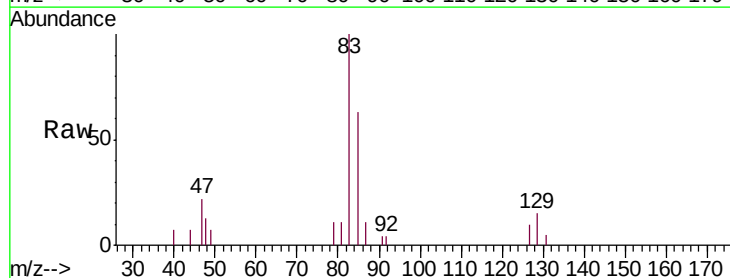
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.533

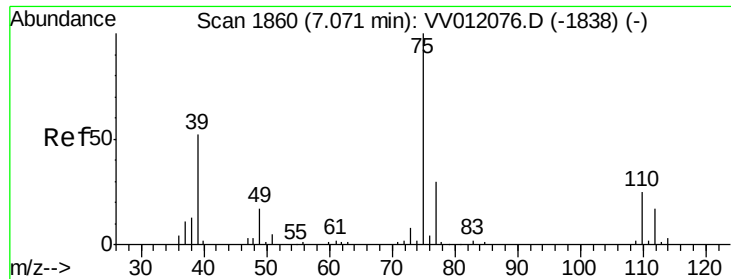
Tgt Ion: 63 Resp: 3626
 Ion Ratio Lower Upper
 63 100
 112 2.0 4.7 7.1#



#38
 Bromodichloromethane
 Concen: 0.467 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Tgt Ion: 83 Resp: 4889
 Ion Ratio Lower Upper
 83 100
 85 63.1 46.2 85.8
 127 10.4 7.2 10.8

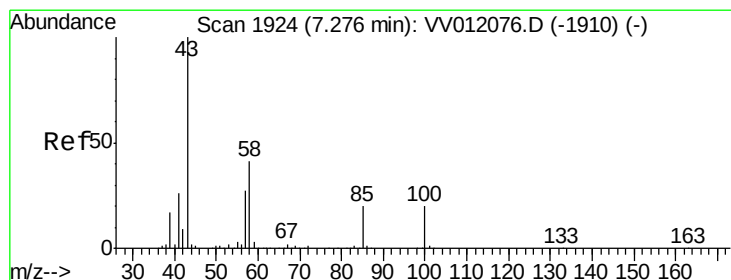
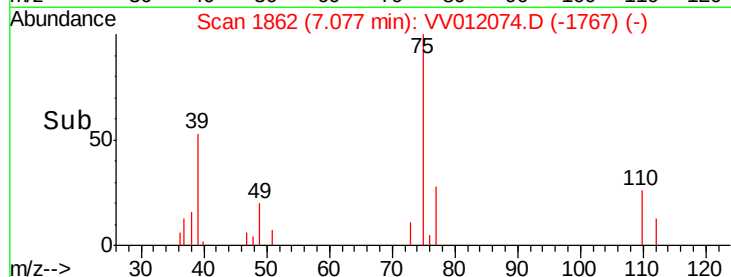
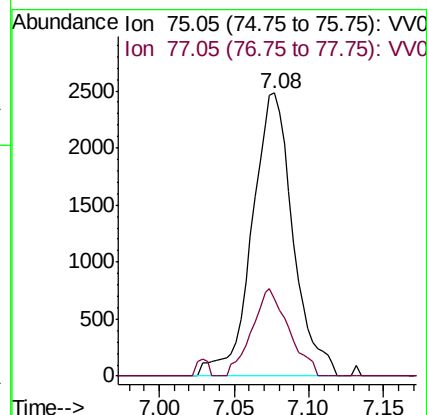
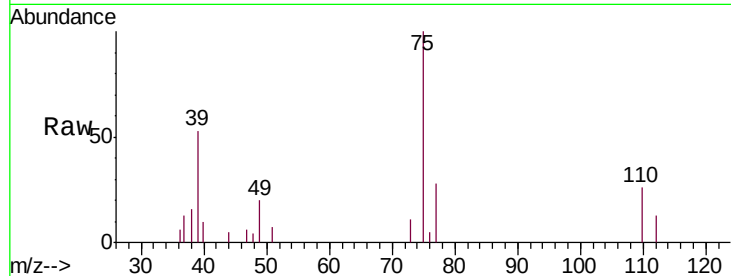




#39
 cis-1,3-Dichloropropene
 Concen: 0.426 ug/L
 RT: 7.08 min Scan# 1862
 Delta R.T. 0.01 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

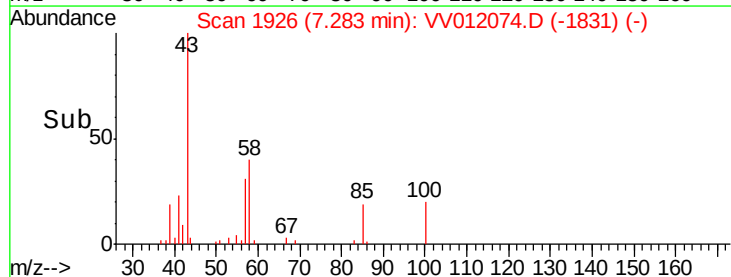
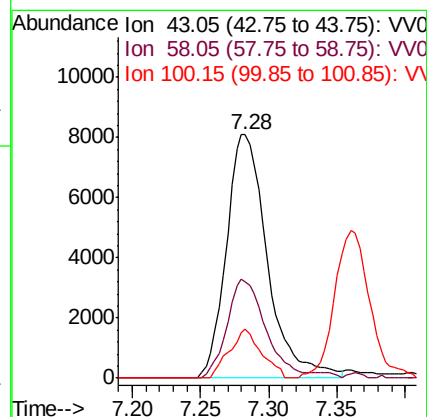
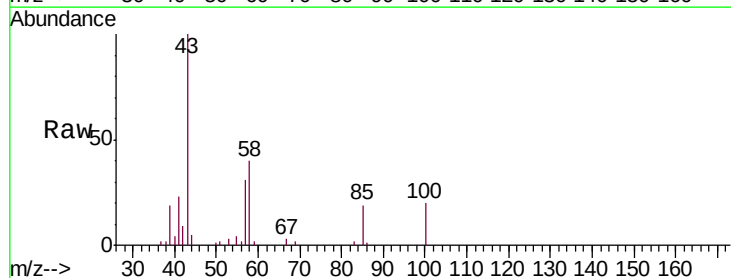
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD0.533

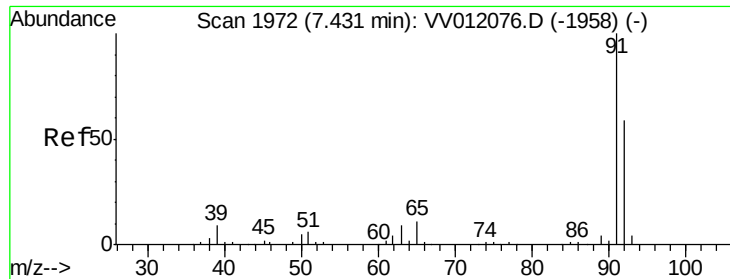
Tgt Ion: 75 Resp: 4727
 Ion Ratio Lower Upper
 75 100
 77 27.5 21.3 39.5



#40
 4-Methyl-2-pentanone
 Concen: 4.360 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.01 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Tgt Ion: 43 Resp: 16919
 Ion Ratio Lower Upper
 43 100
 58 37.9 31.8 47.6
 100 15.7 15.0 22.4





#42

Toluene

Concen: 0.442 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

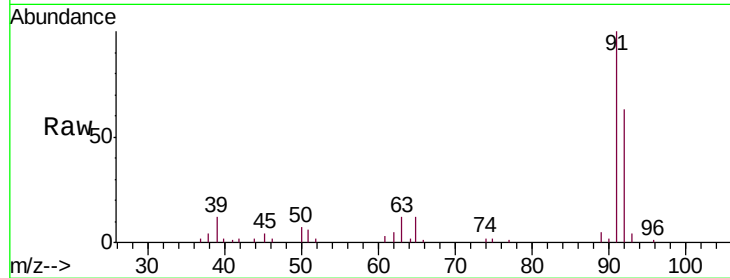
VSTD0.533

Tgt Ion: 91 Resp: 14908

Ion Ratio Lower Upper

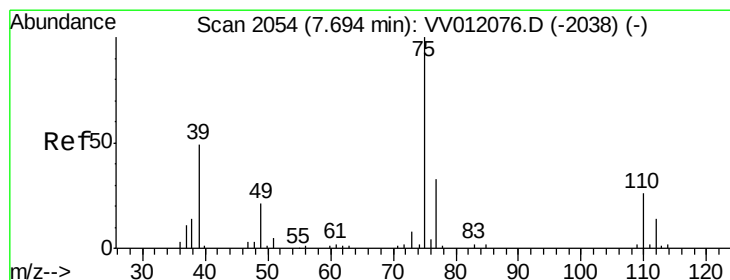
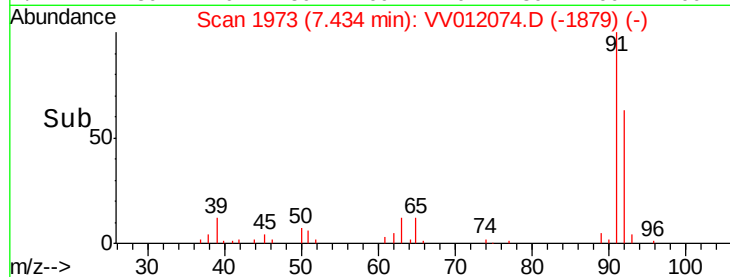
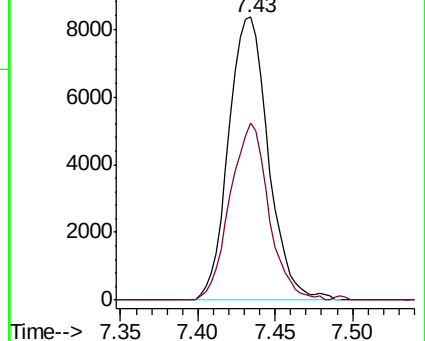
91 100

92 62.5 41.6 77.2



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.417 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV012074.D

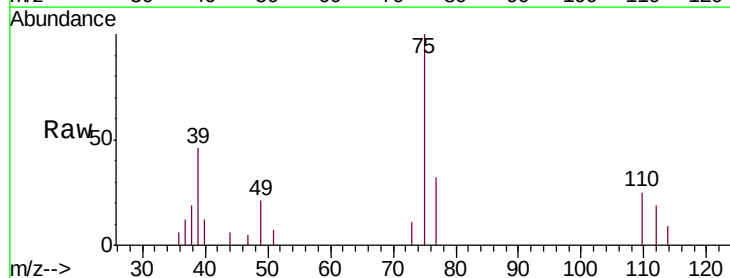
Acq: 30 Jul 2019 17:12

Tgt Ion: 75 Resp: 3737

Ion Ratio Lower Upper

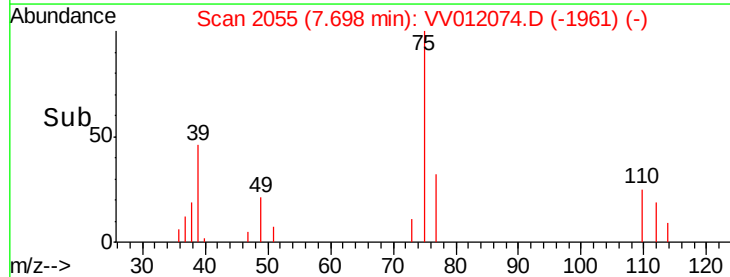
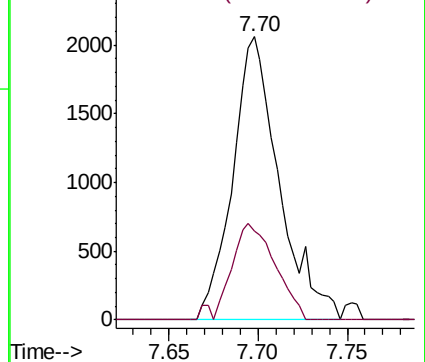
75 100

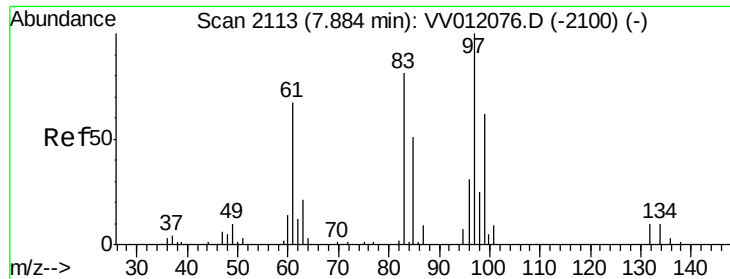
77 31.5 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

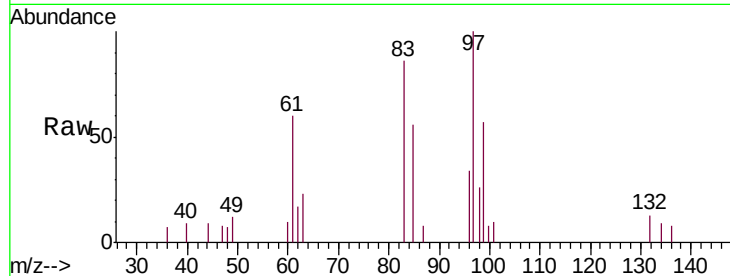




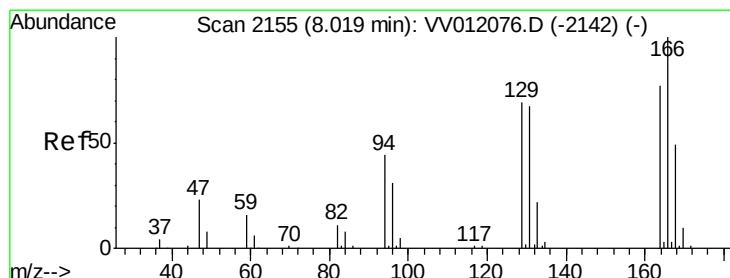
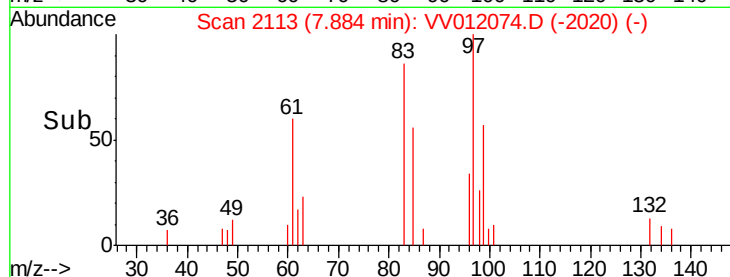
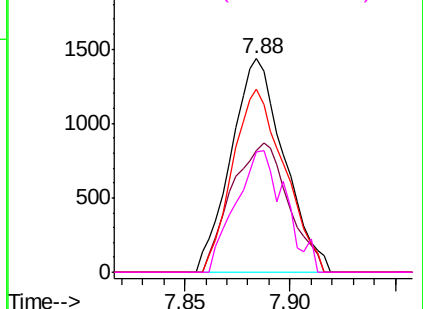
#45
1,1,2-Trichloroethane
Concen: 0.473 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.533

Tgt Ion:	97	Resp:	2513
Ion	Ratio	Lower	Upper
97	100		
99	57.1	43.3	80.3
83	85.6	56.6	105.0
85	56.1	35.8	66.6

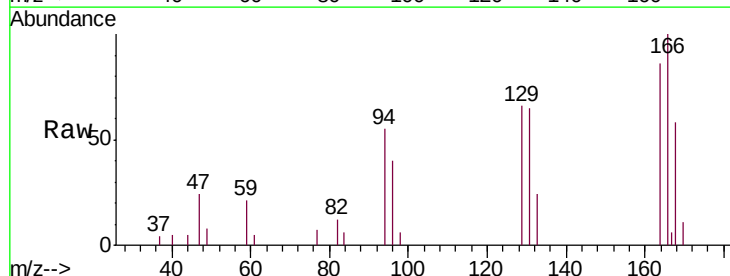


Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0

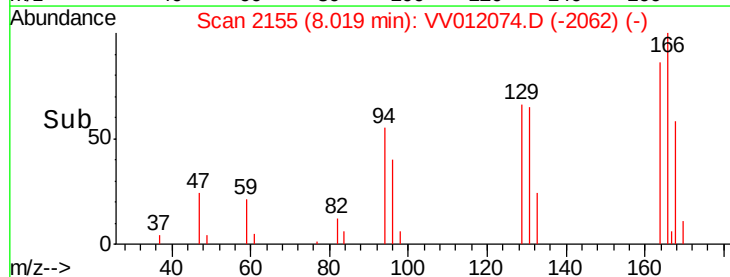
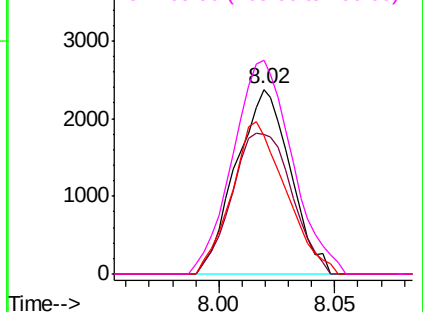


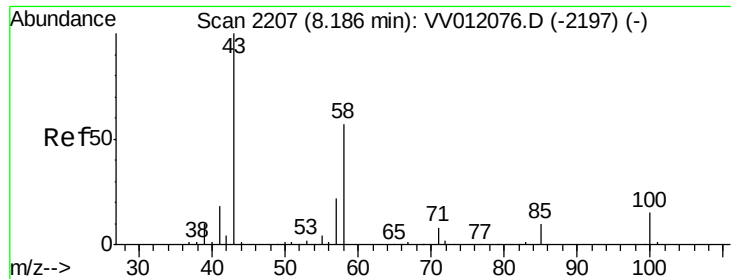
#47
Tetrachloroethene
Concen: 0.479 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Tgt Ion:	164	Resp:	3871
Ion	Ratio	Lower	Upper
164	100		
129	75.8	62.5	116.1
131	75.0	60.9	113.1
166	115.7	90.4	168.0



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

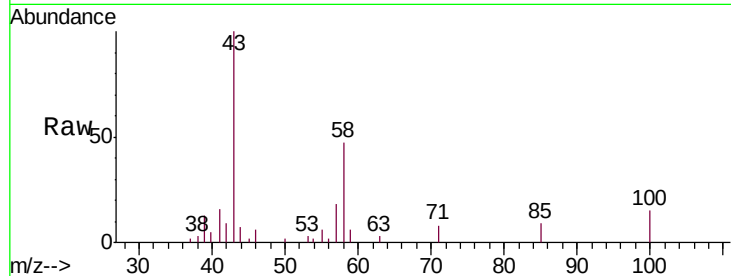




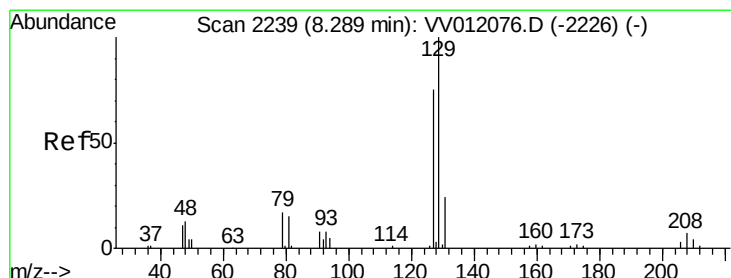
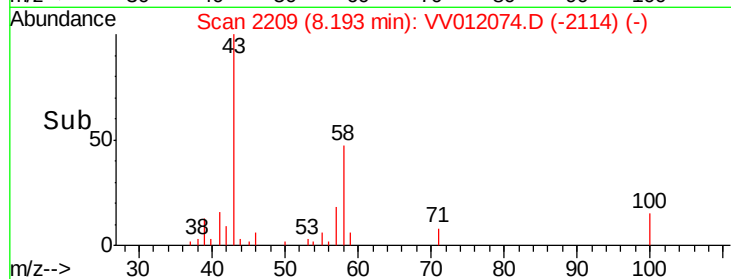
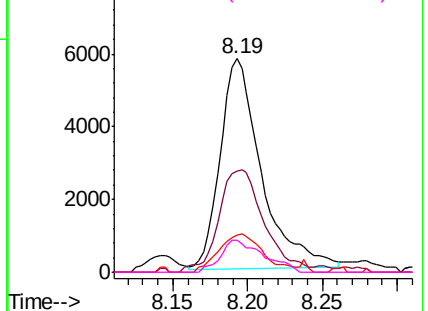
#48
2-Hexanone
Concen: 4.118 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.533

Tgt Ion: 43 Resp: 11114
Ion Ratio Lower Upper
43 100
58 53.4 45.7 68.5
57 19.5 17.0 25.4
100 15.9 12.6 18.8

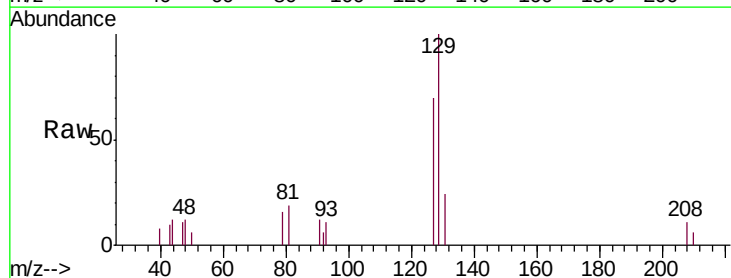


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

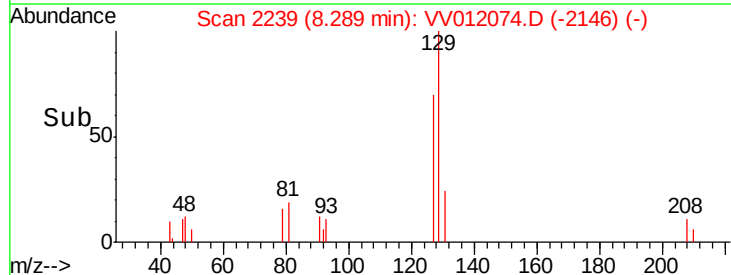
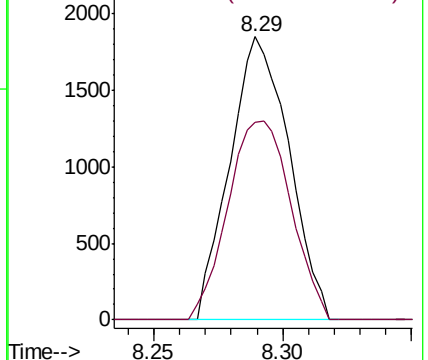


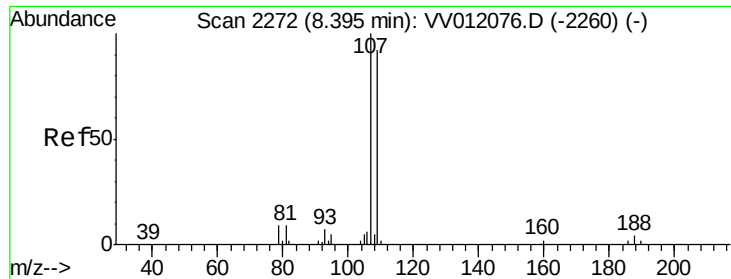
#49
Dibromochloromethane
Concen: 0.428 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Tgt Ion: 129 Resp: 2951
Ion Ratio Lower Upper
129 100
127 70.0 52.8 98.2



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

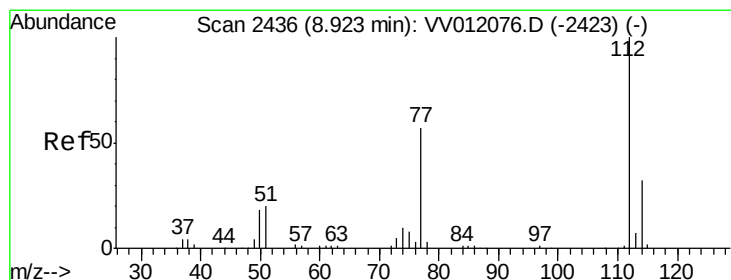
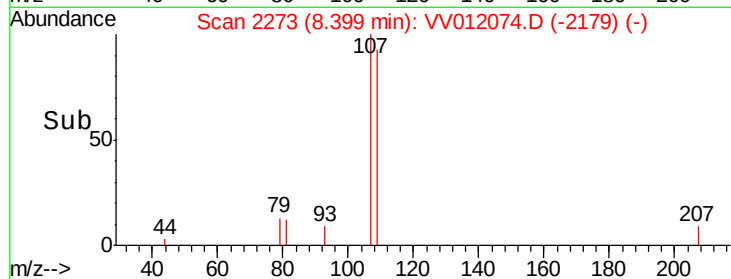
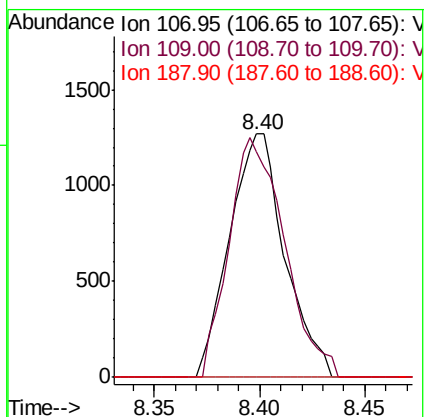
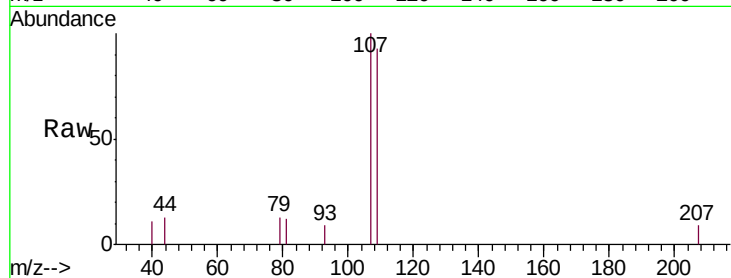




#50
1,2-Dibromoethane
Concen: 0.453 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

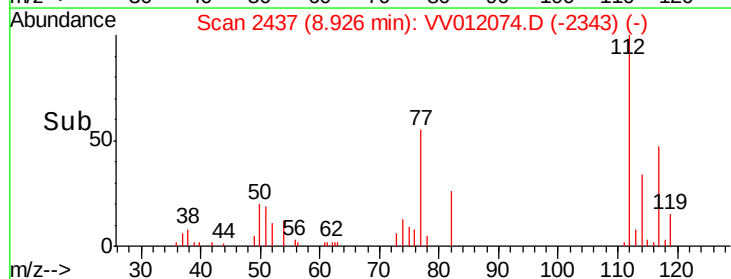
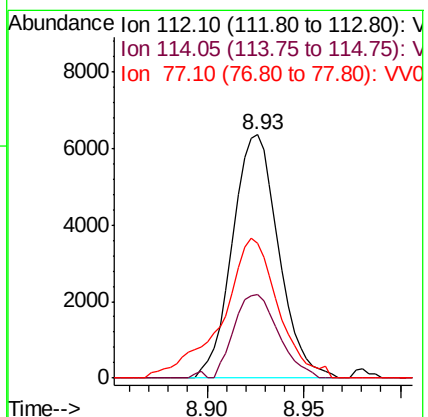
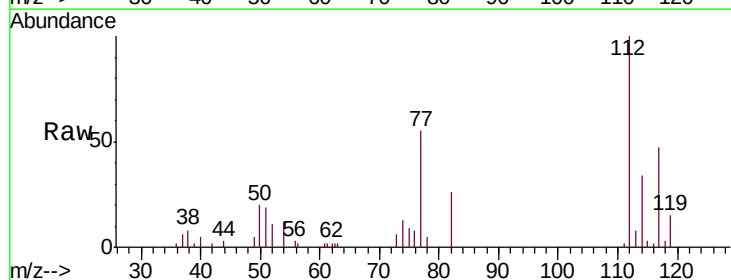
Instrument :
MSVOA_V
ClientSampleId :
VSTD0.533

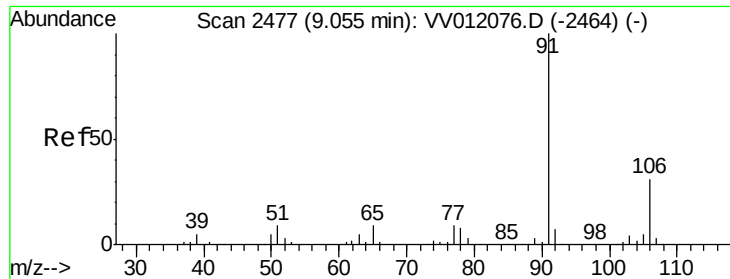
Tgt Ion:107 Resp: 2308
Ion Ratio Lower Upper
107 100
109 92.6 64.7 120.1
188 0.0 3.4 5.0#



#51
Chlorobenzene
Concen: 0.463 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Tgt Ion:112 Resp: 10566
Ion Ratio Lower Upper
112 100
114 34.1 22.4 41.6
77 55.2 46.1 69.1





#52

Ethylbenzene

Concen: 0.431 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

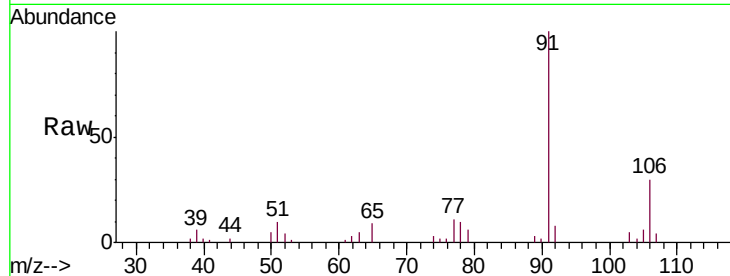
VSTD0.533

Tgt Ion: 91 Resp: 16745

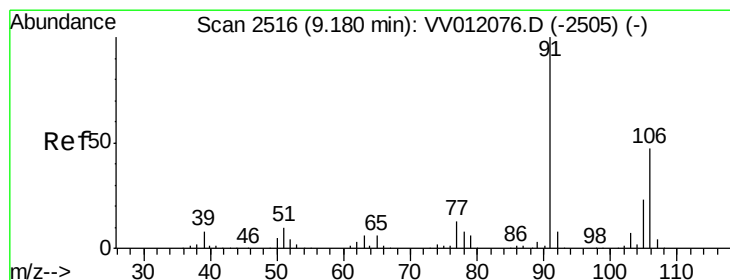
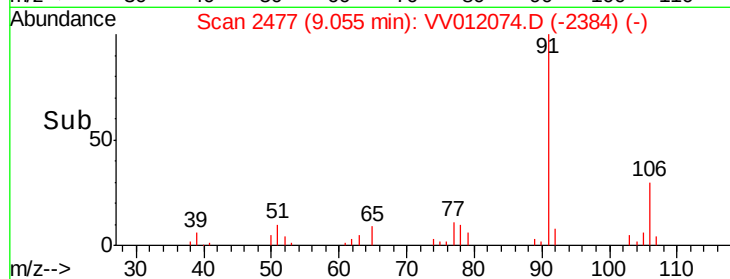
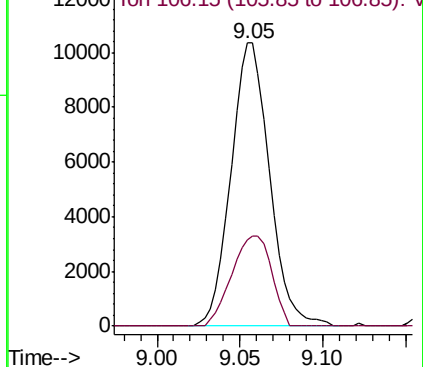
Ion Ratio Lower Upper

91 100

106 30.4 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV012076.D (-2464) (-)



#53

m,p-xylene

Concen: 0.427 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012074.D

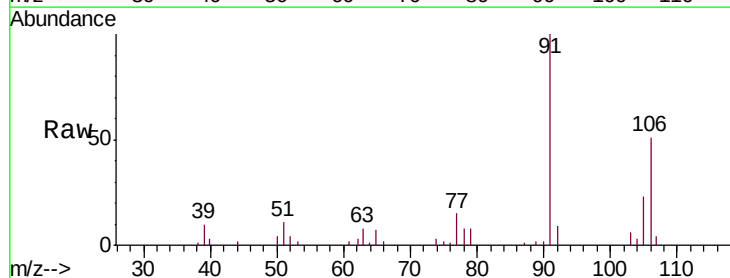
Acq: 30 Jul 2019 17:12

Tgt Ion: 106 Resp: 6360

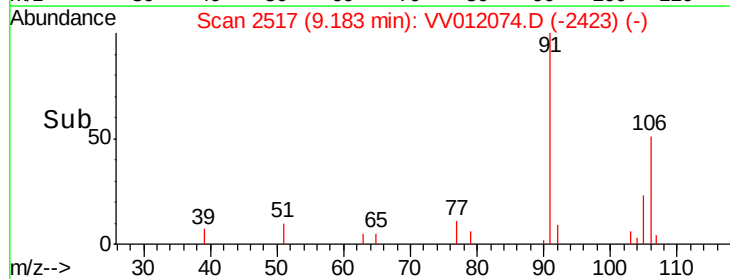
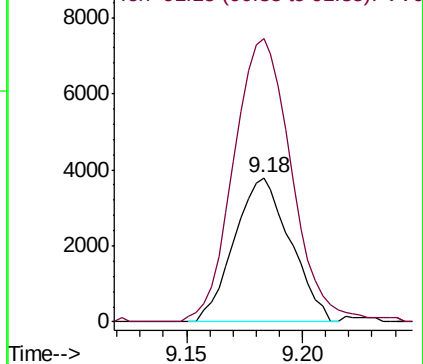
Ion Ratio Lower Upper

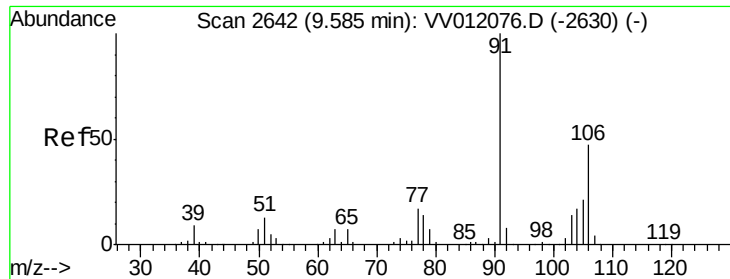
106 100

91 196.8 148.7 276.3



Abundance Ion 106.15 (105.85 to 106.85): VV012076.D (-2505) (-)

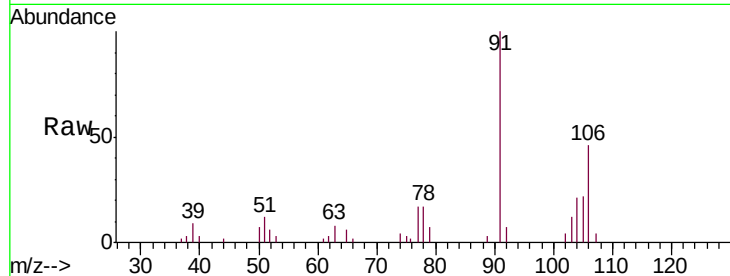




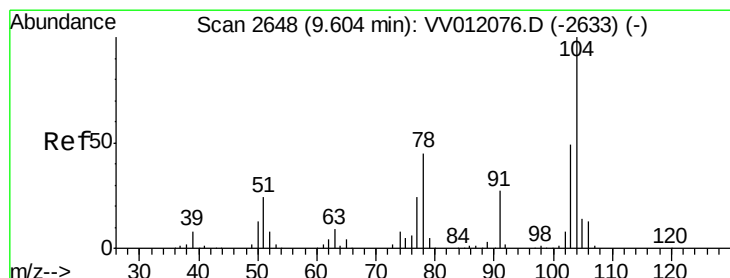
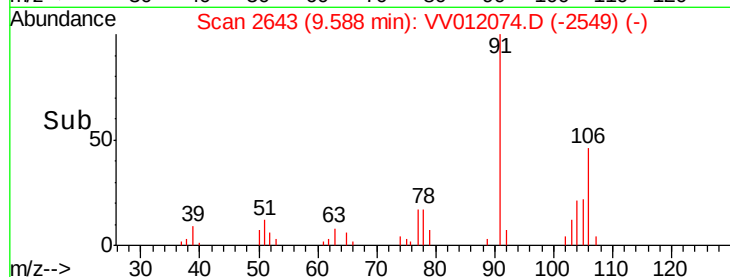
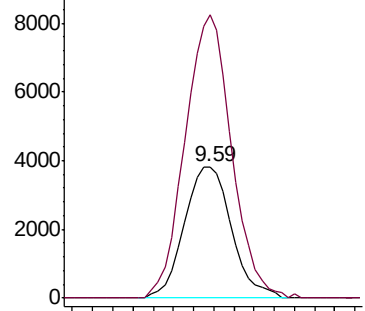
#54
o-xylene
Concen: 0.438 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.533

Tgt Ion:106 Resp: 6257
Ion Ratio Lower Upper
106 100
91 215.3 147.7 274.3

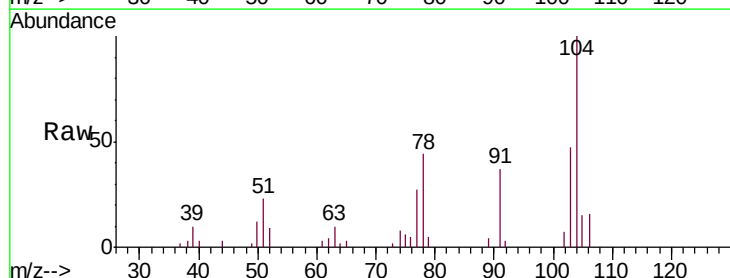


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

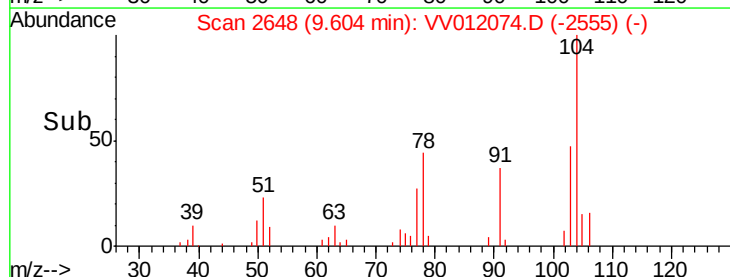
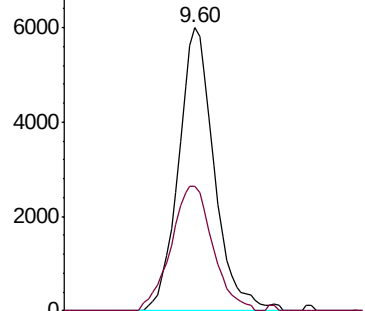


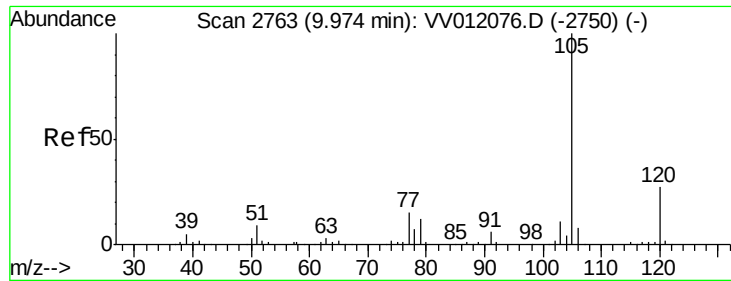
#55
Styrene
Concen: 0.421 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Tgt Ion:104 Resp: 10200
Ion Ratio Lower Upper
104 100
78 44.0 31.7 58.9



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

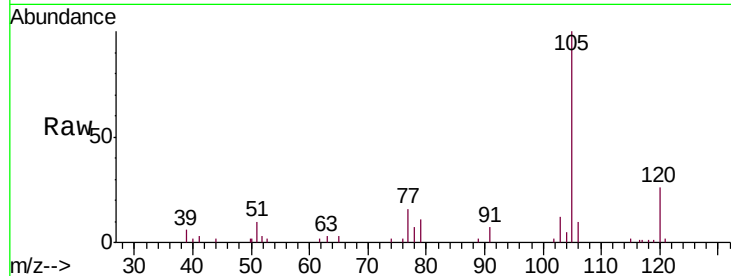




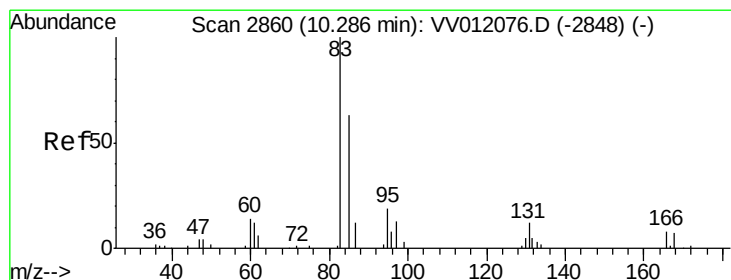
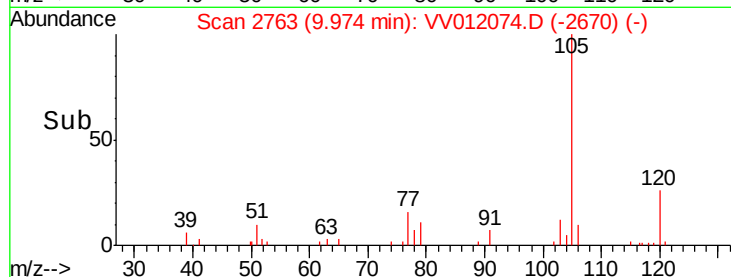
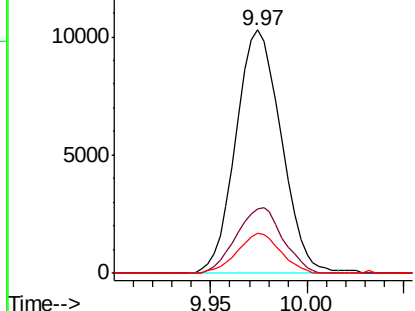
#56
Isopropylbenzene
Concen: 0.425 ug/L
RT: 9.97 min Scan# 2763
Delta R.T. -0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.533

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.5	21.8	32.8
77	15.7	12.7	19.1

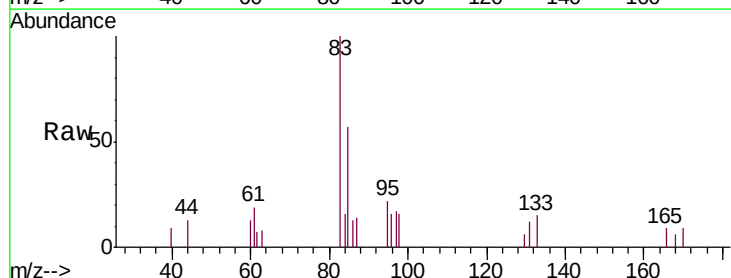


Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V

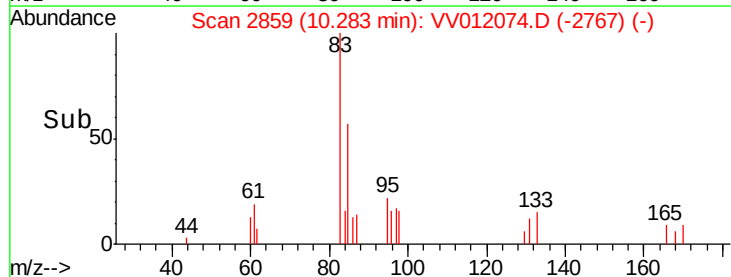
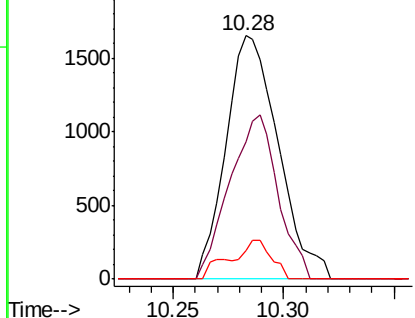


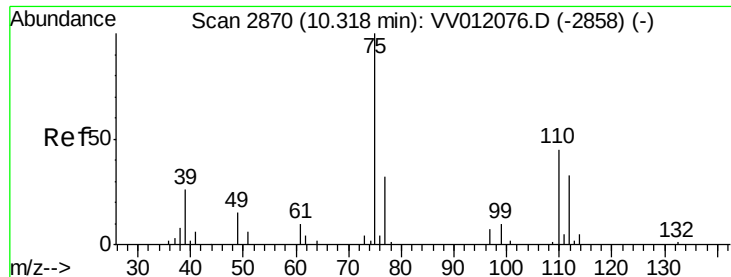
#58
1,1,2,2-Tetrachloroethane
Concen: 0.463 ug/L
RT: 10.28 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VV012074.D
Acq: 30 Jul 2019 17:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.6	45.1	83.7
131	11.6	10.3	15.5



Abundance Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 130.95 (130.65 to 131.65): V

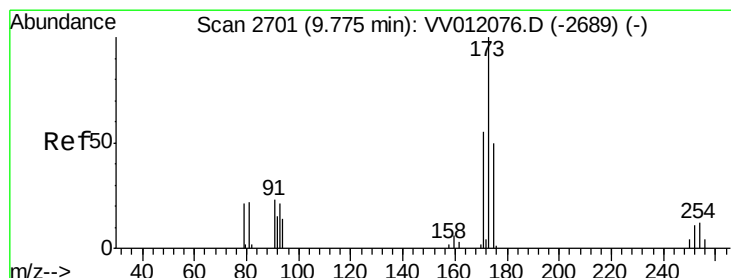
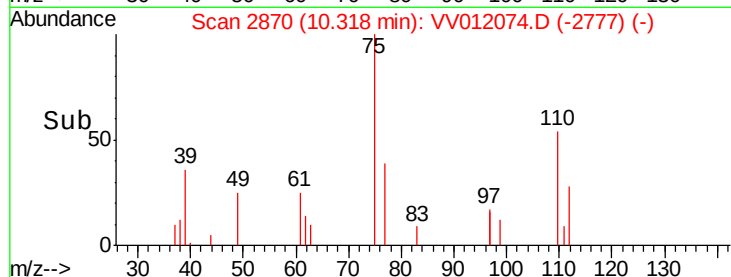
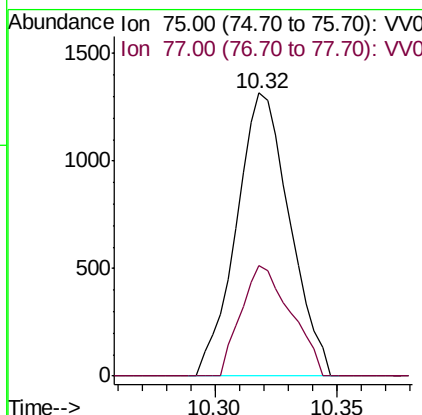
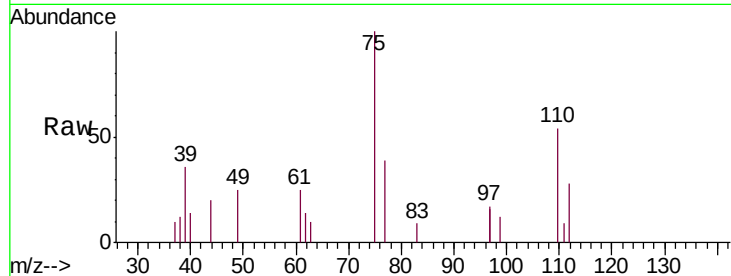




#59
 1,2,3-Trichloropropane
 Concen: 0.451 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

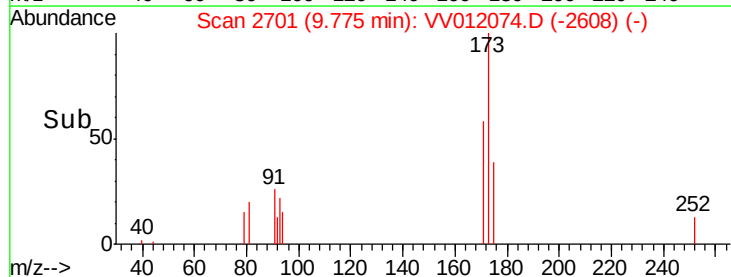
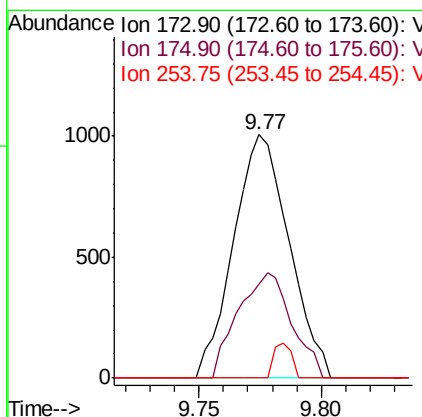
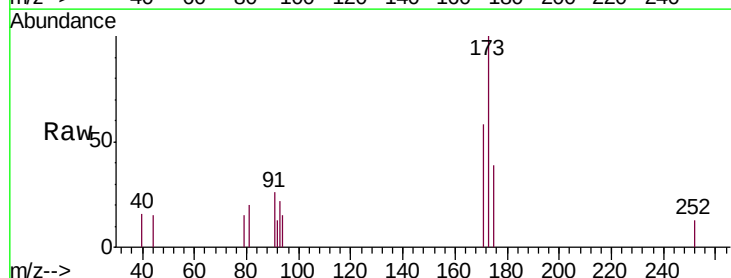
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD0.533

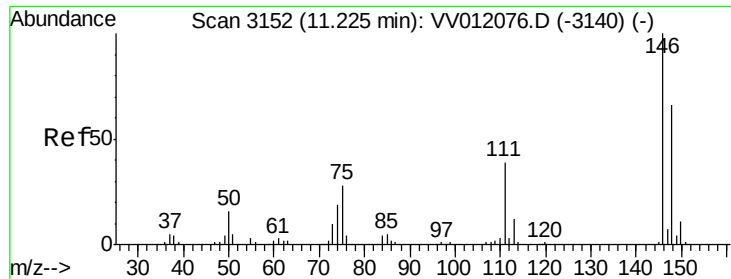
Tgt Ion: 75 Resp: 1998
 Ion Ratio Lower Upper
 75 100
 77 36.2 26.9 40.3



#61
 Bromoform
 Concen: 0.444 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Tgt Ion: 173 Resp: 1589
 Ion Ratio Lower Upper
 173 100
 175 41.8 39.4 59.2
 254 4.7 8.7 13.1#

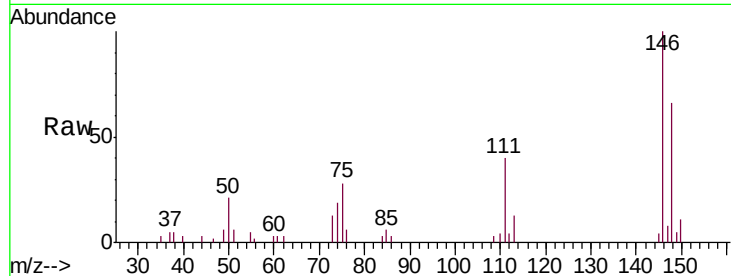




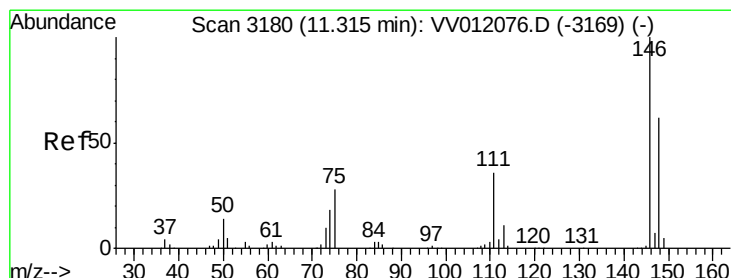
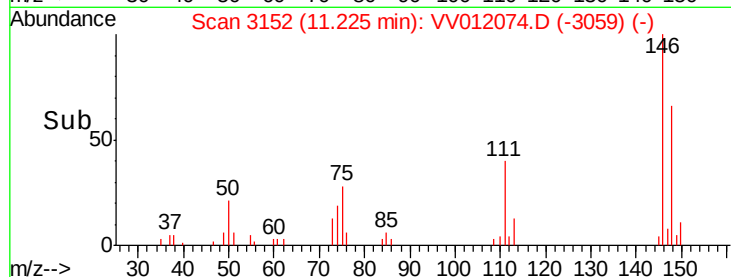
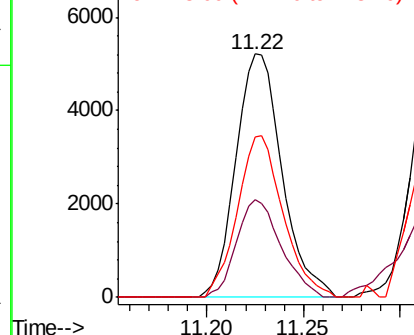
#62
 1,3-Dichlorobenzene
 Concen: 0.466 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.533

Tgt Ion:146 Resp: 8654
 Ion Ratio Lower Upper
 146 100
 111 40.1 27.2 50.6
 148 65.8 45.9 85.3

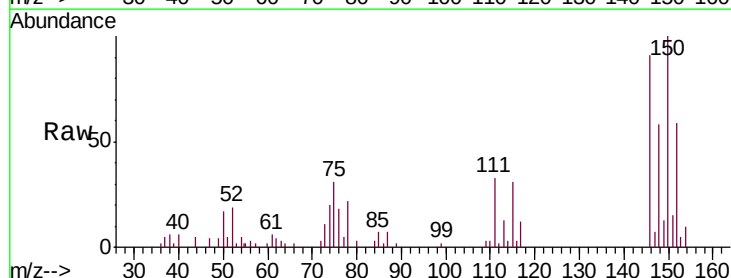


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

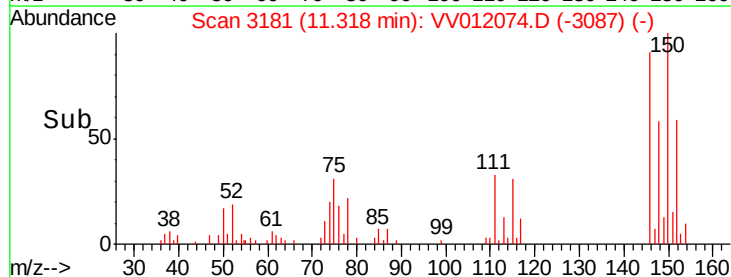
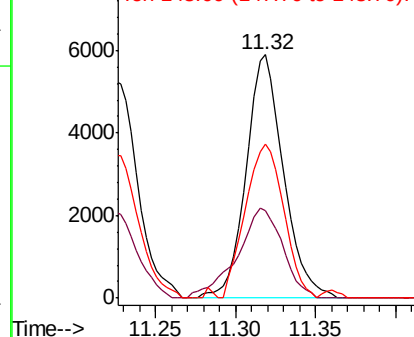


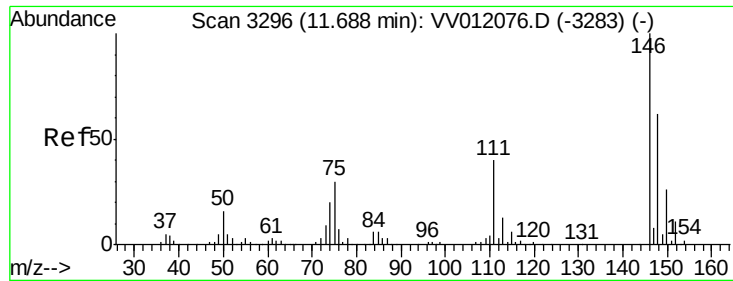
#63
 1,4-Dichlorobenzene
 Concen: 0.495 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Tgt Ion:146 Resp: 9383
 Ion Ratio Lower Upper
 146 100
 111 36.0 25.4 47.2
 148 63.2 43.5 80.7



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





#65

1,2-Dichlorobenzene

Concen: 0.476 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.533

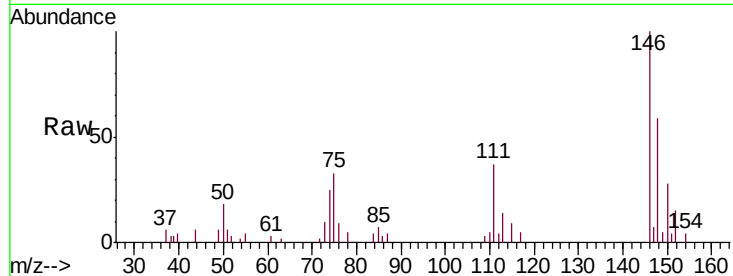
Tgt Ion:146 Resp: 7978

Ion Ratio Lower Upper

146 100

111 36.8 32.3 48.5

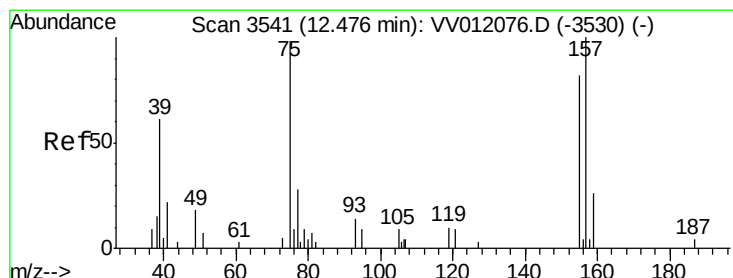
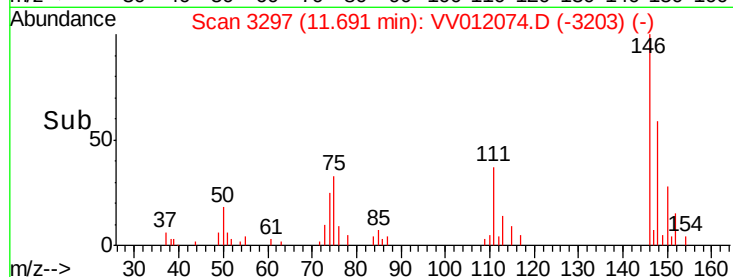
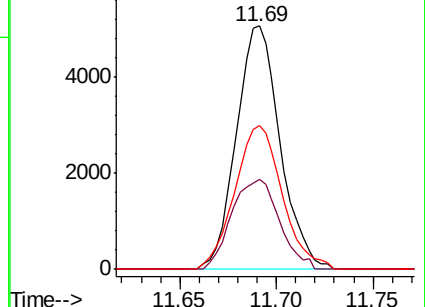
148 59.0 49.9 74.9



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



#66

1,2-Dibromo-3-chloropropane

Concen: 0.312 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

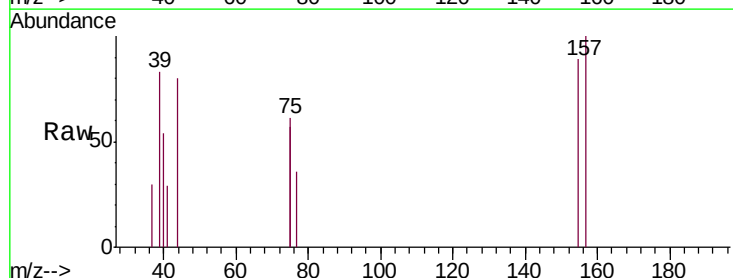
Tgt Ion: 75 Resp: 281

Ion Ratio Lower Upper

75 100

155 76.0 66.9 100.3

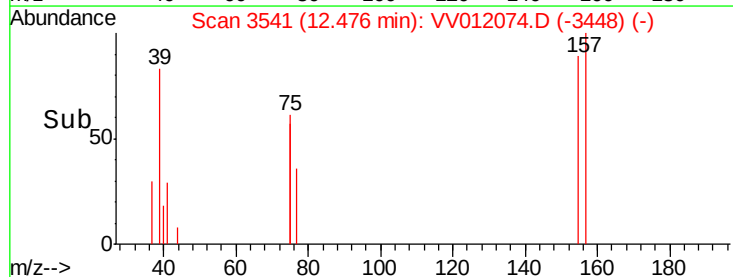
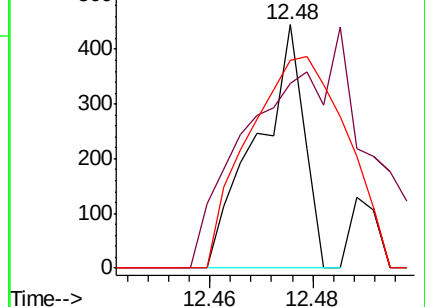
157 85.2 81.8 122.6

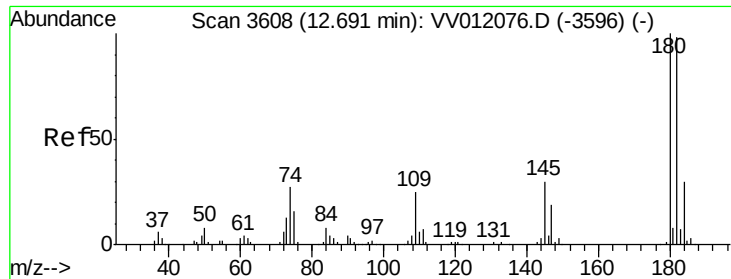


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

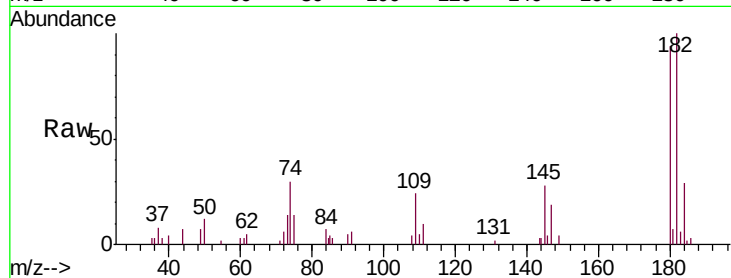




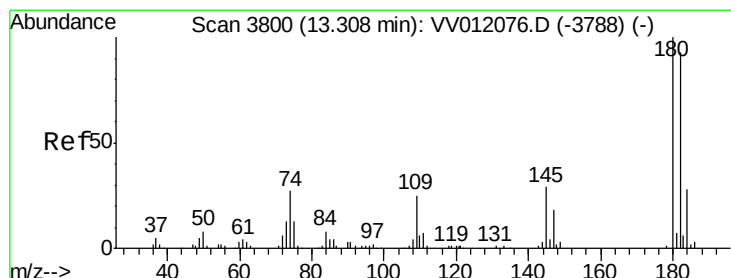
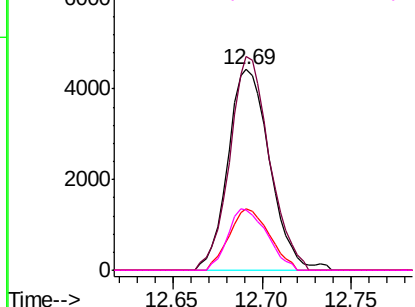
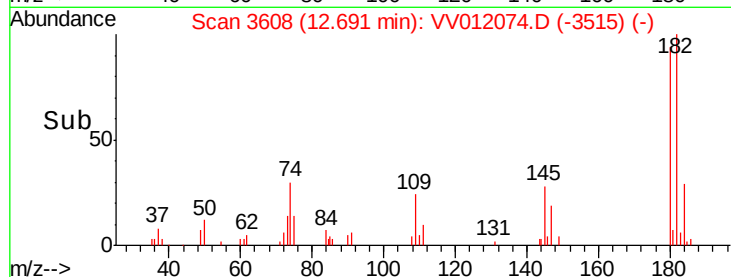
#67
 1,3,5-Trichlorobenzene
 Concen: 0.475 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.533

Tgt Ion:180 Resp: 7221
 Ion Ratio Lower Upper
 180 100
 182 101.0 76.6 115.0
 184 29.5 23.8 35.8
 145 28.6 22.6 33.8

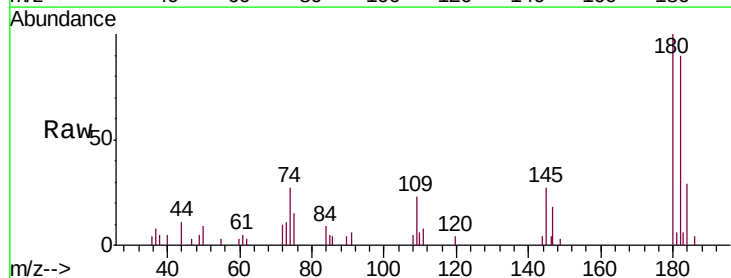


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

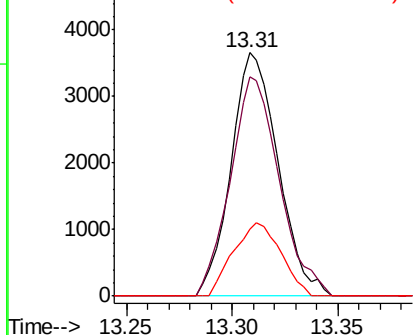
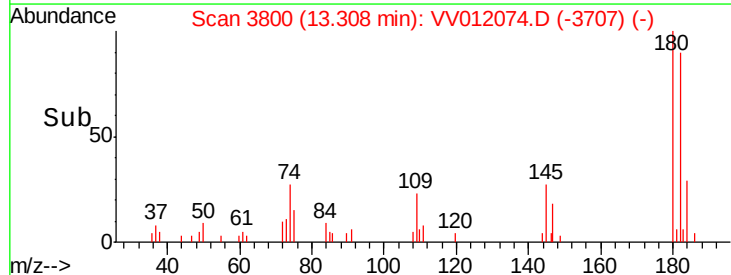


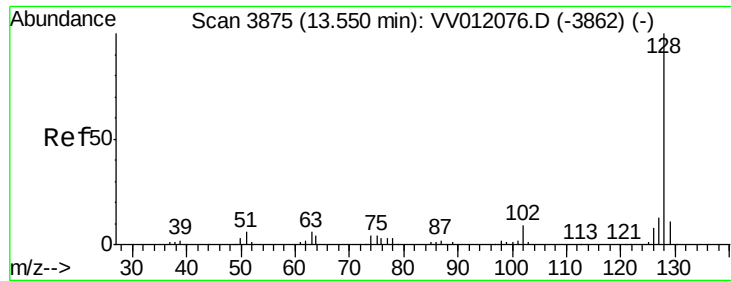
#68
 1,2,4-trichlorobenzene
 Concen: 0.463 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV012074.D
 Acq: 30 Jul 2019 17:12

Tgt Ion:180 Resp: 5680
 Ion Ratio Lower Upper
 180 100
 182 93.6 75.4 113.0
 145 30.4 23.5 35.3



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.392 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.533

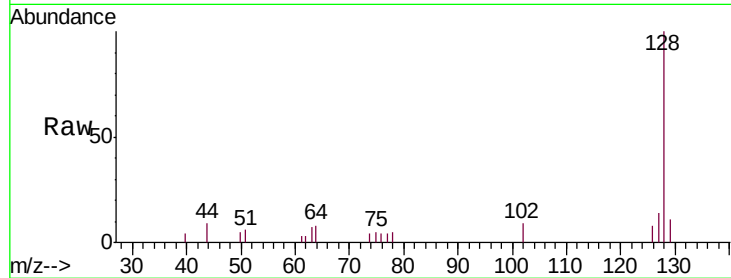
Tgt Ion:128 Resp: 6484

Ion Ratio Lower Upper

128 100

129 12.9 8.4 12.6#

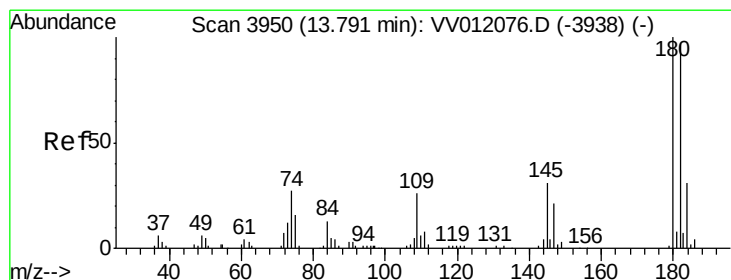
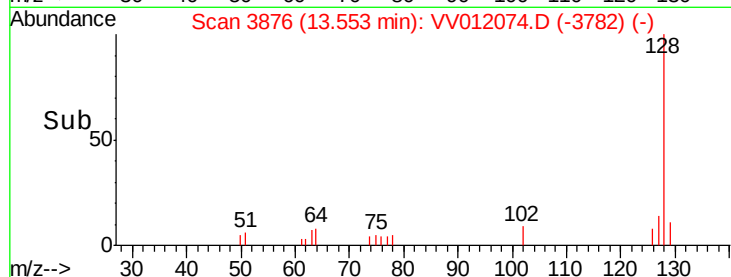
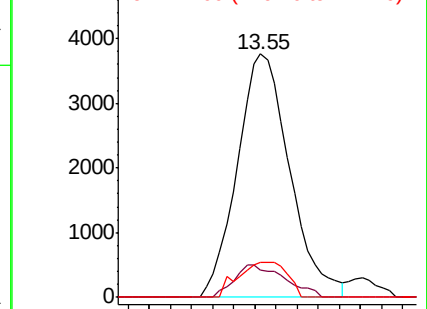
127 13.4 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.452 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012074.D

Acq: 30 Jul 2019 17:12

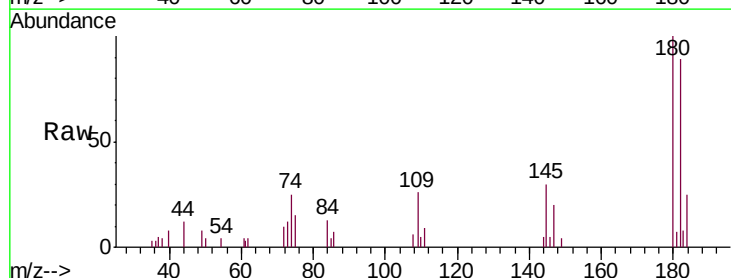
Tgt Ion:180 Resp: 4939

Ion Ratio Lower Upper

180 100

182 96.2 76.5 114.7

145 30.2 24.4 36.6



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

