

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110819\
 Data File : VV013573.D
 Acq On : 09 Nov 2019 05:46
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

Quant Time: Nov 11 00:30:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR110819WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Nov 11 00:28:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	407674	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	394394	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	214520	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	89790	5.22	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.40%
7) Chloroethane-d5	1.58	69	78735	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.20%
11) 1,1-Dichloroethene-d2	2.14	63	173940	5.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	102.40%
20) 2-Butanone-d5	3.93	46	315343	51.19	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.38%
24) Chloroform-d	4.40	84	218933	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	5.08	65	117259	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%
32) Benzene-d6	5.10	84	397138	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
36) 1,2-Dichloropropane-d6	6.11	67	135003	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.20%
41) Toluene-d8	7.36	98	353469	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.40%
43) trans-1,3-Dichloropropene-	7.66	79	49454	4.77	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.40%
46) 2-Hexanone-d5	8.13	63	217564	52.42	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.84%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	108210	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	168023	4.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	192375	4.823	ug/L 99
3) Chloromethane	1.25	50	181893	5.102	ug/L 100
5) Vinyl chloride	1.32	62	174958	5.098	ug/L 96
6) Bromomethane	1.53	94	85340	4.723	ug/L 100
8) Chloroethane	1.60	64	93550	4.937	ug/L 94
9) Trichlorofluoromethane	1.77	101	243508	5.272	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	130165	5.028	ug/L 99
12) 1,1-Dichloroethene	2.14	96	125530	5.120	ug/L 93
13) Acetone	2.19	43	177794	47.579	ug/L 100
14) Carbon disulfide	2.32	76	366641	4.976	ug/L 99
15) Methyl Acetate	2.46	43	55069	4.929	ug/L 98
16) Methylene chloride	2.53	84	153897	4.792	ug/L 98
17) Methyl tert-butyl Ether	2.80	73	311536	4.809	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	148217	4.872	ug/L 98
19) 1,1-Dichloroethane	3.23	63	279848	4.930	ug/L 97
21) 2-Butanone	4.01	43	341672	49.988	ug/L 99
22) cis-1,2-Dichloroethene	3.96	96	156706	4.995	ug/L # 96

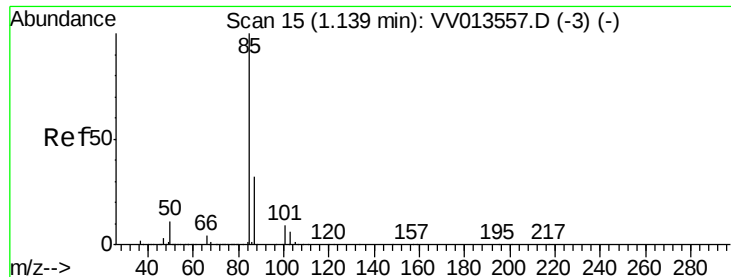
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110819\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	69012	4.750	ug/L	96
25) Chloroform	4.42	83	301249	4.867	ug/L	99
27) 1,2-Dichloroethane	5.18	62	170277	5.094	ug/L	100
29) 1,1,1-Trichloroethane	4.66	97	240613	4.921	ug/L	99
30) Cyclohexane	4.72	56	241786	4.913	ug/L	100
31) Carbon tetrachloride	4.87	117	217268	4.954	ug/L	99
33) Benzene	5.14	78	604316	4.931	ug/L	100
34) Trichloroethene	5.96	95	160242	4.850	ug/L	98
35) Methylcyclohexane	6.17	83	237988	4.738	ug/L	99
37) 1,2-Dichloropropane	6.22	63	151395	5.023	ug/L	99
38) Bromodichloromethane	6.55	83	194042	4.987	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	194994	4.656	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	855983	49.374	ug/L	100
42) Toluene	7.43	91	660268	5.181	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	152844	4.642	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	100067	4.831	ug/L	97
47) Tetrachloroethene	8.02	164	140196	4.853	ug/L	99
48) 2-Hexanone	8.18	43	610208	49.712	ug/L	100
49) Dibromochloromethane	8.29	129	127632	4.939	ug/L	97
50) 1,2-Dibromoethane	8.39	107	92740	4.794	ug/L	98
51) Chlorobenzene	8.92	112	418209	4.974	ug/L	99
52) Ethylbenzene	9.05	91	678473	4.969	ug/L	99
53) m,p-xylene	9.18	106	260910	5.123	ug/L	98
54) o-xylene	9.58	106	249791	5.106	ug/L	100
55) Styrene	9.60	104	442347	5.332	ug/L	98
56) Isopropylbenzene	9.97	105	677461	5.130	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	109010	4.930	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	88775	4.961	ug/L	98
61) Bromoform	9.77	173	72036	4.738	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	349242	4.853	ug/L	98
63) 1,4-Dichlorobenzene	11.31	146	345749	4.810	ug/L	98
65) 1,2-Dichlorobenzene	11.68	146	314526	4.777	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.47	75	15573	4.645	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	265803	4.734	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	205298	4.589	ug/L	100
69) Naphthalene	13.55	128	266616	4.413	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	194945	4.642	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.823 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

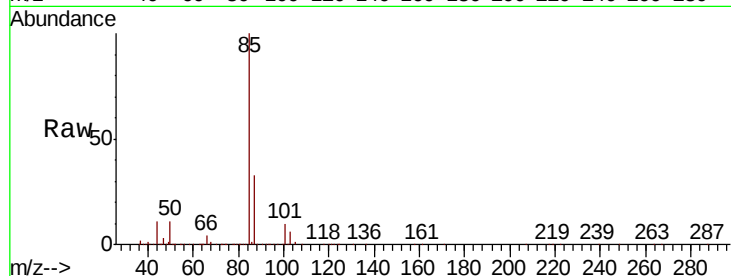
VSTD00552

Tot Ion: 85 Resp: 192375

Ion Ratio Lower Upper

85 100

87 32.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

200000

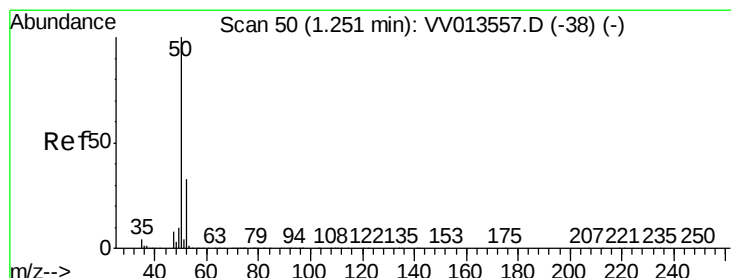
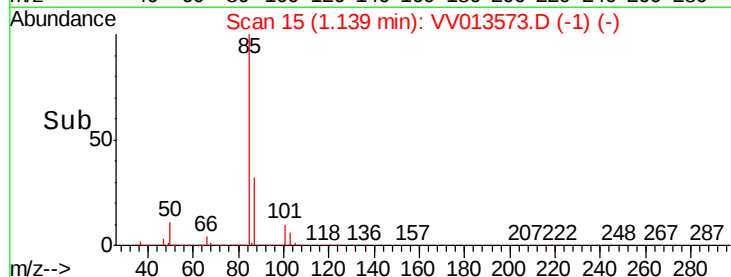
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 5.102 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013573.D

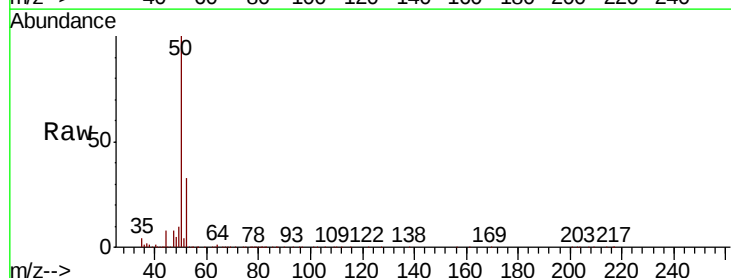
Acq: 09 Nov 2019 05:46

Tgt Ion: 50 Resp: 181893

Ion Ratio Lower Upper

50 100

52 32.5 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.25

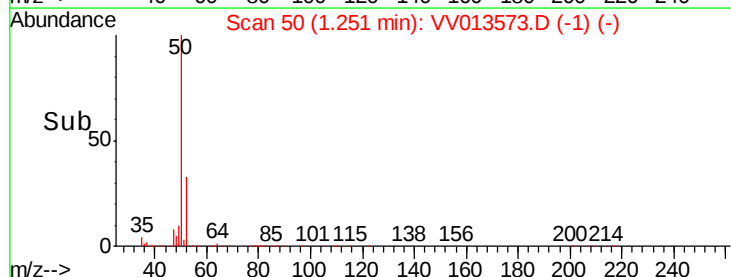
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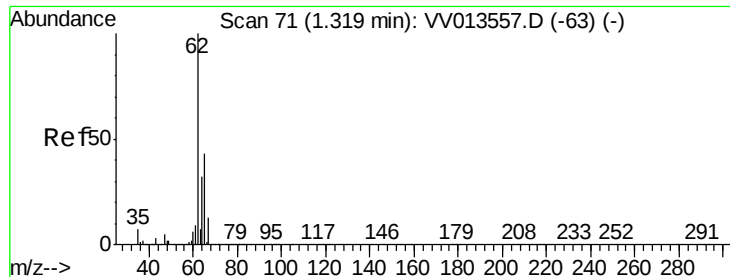
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 5.098 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

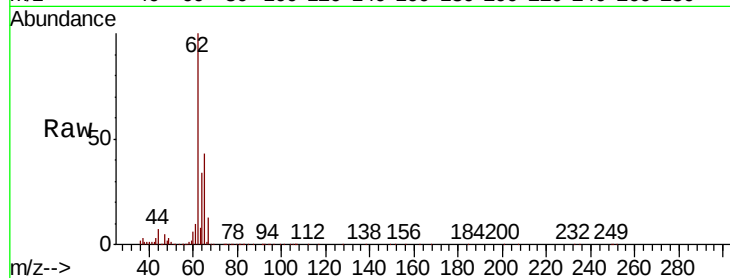
VSTD00552

Tot Ion: 62 Resp: 174958

Ion Ratio Lower Upper

62 100

64 34.3 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

150000

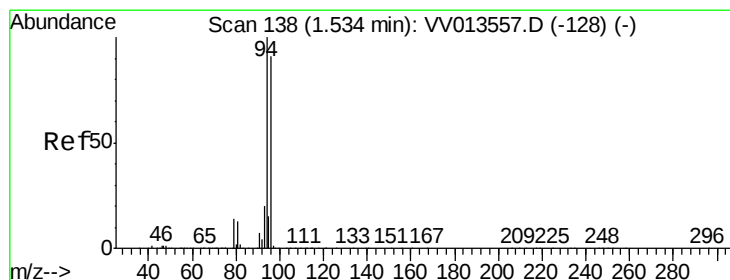
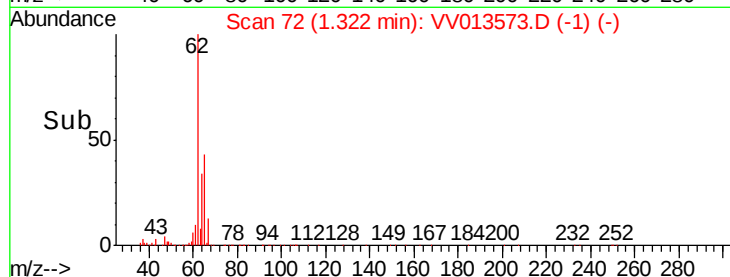
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50000

0

Time-->

1.30 1.40



#6

Bromomethane

Concen: 4.723 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV013573.D

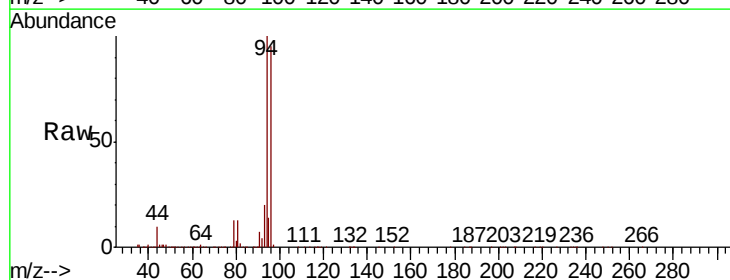
Acq: 09 Nov 2019 05:46

Tgt Ion: 94 Resp: 85340

Ion Ratio Lower Upper

94 100

96 95.1 66.4 123.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

80000

60000

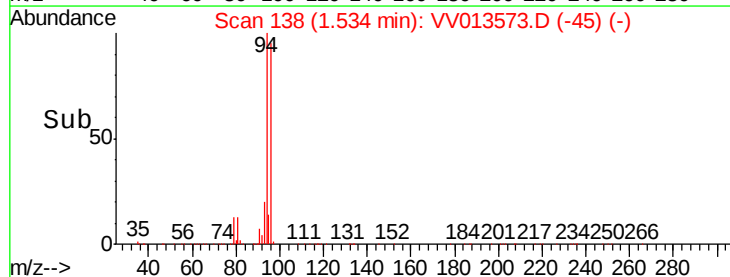
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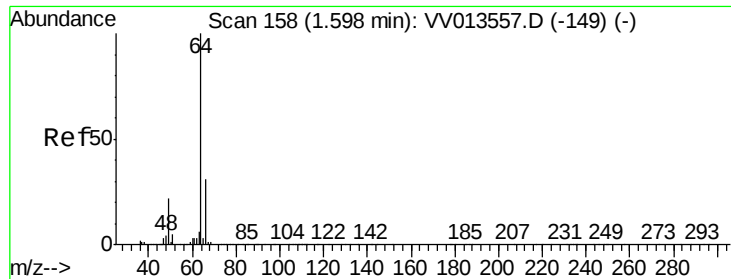
20000

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Time-->

1.45 1.50 1.55 1.60

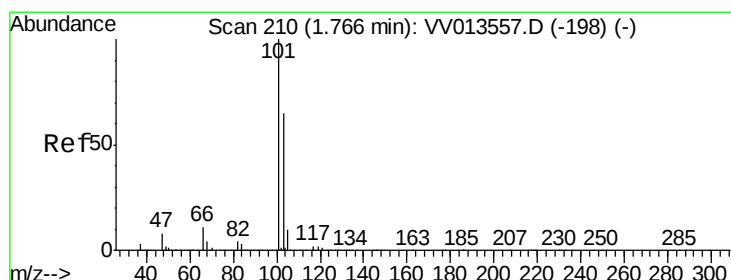
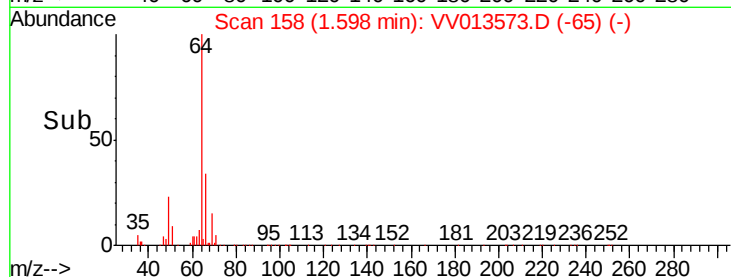
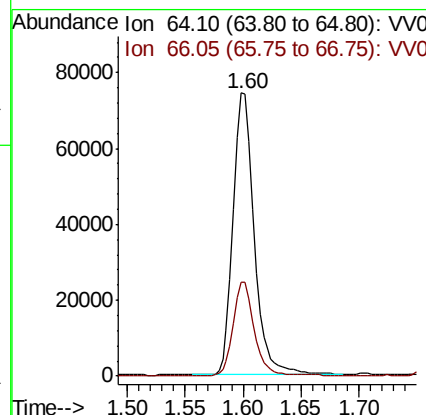
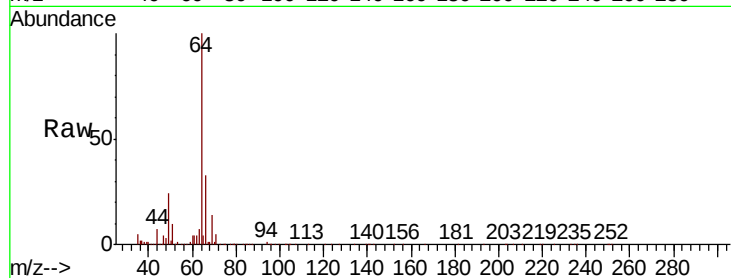




#8
Chloroethane
Concen: 4.937 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

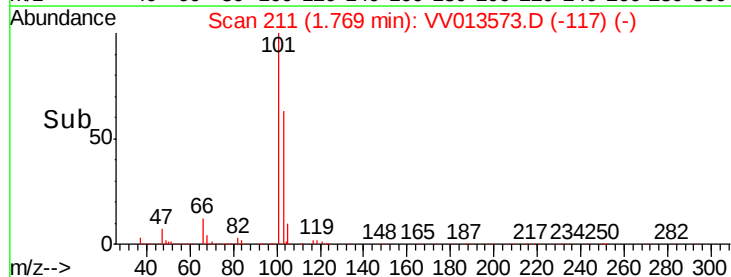
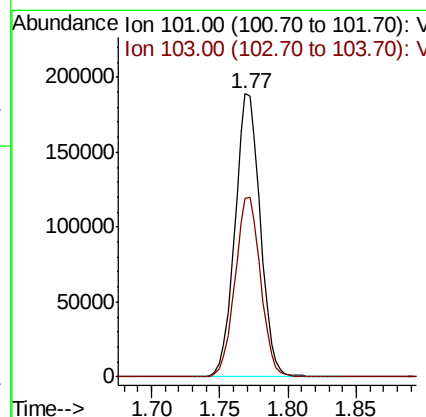
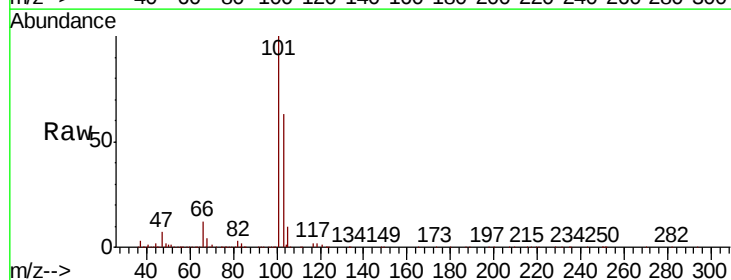
Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

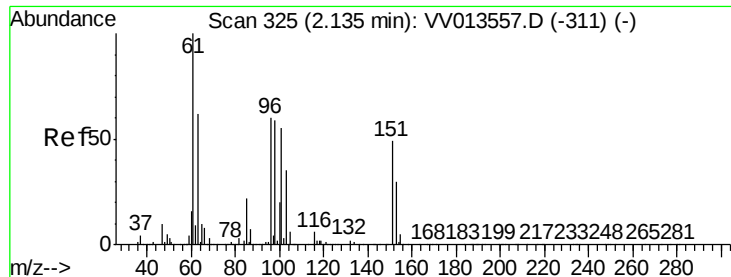
Tot Ion: 64 Resp: 93550
Ion Ratio Lower Upper
64 100
66 33.4 21.1 39.3



#9
Trichlorofluoromethane
Concen: 5.272 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

Tgt Ion: 101 Resp: 243508
Ion Ratio Lower Upper
101 100
103 64.1 50.5 75.7





#10

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

Concen: 5.028 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

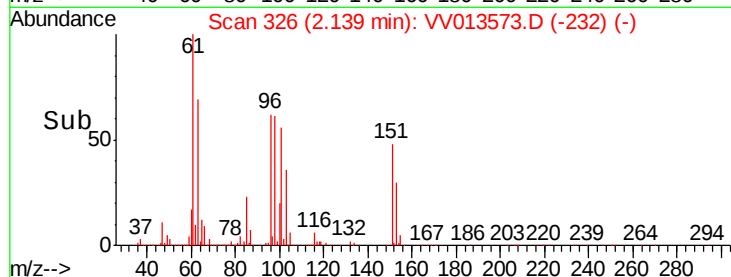
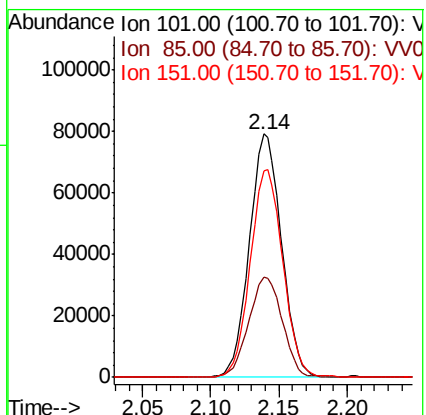
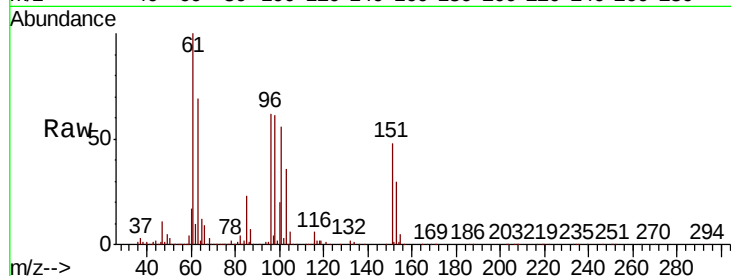
Tot Ion:101 Resp: 130165

Ion Ratio Lower Upper

101 100

85 43.0 33.8 50.8

151 86.4 69.5 104.3



#12

1,1-Dichloroethene

Concen: 5.120 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

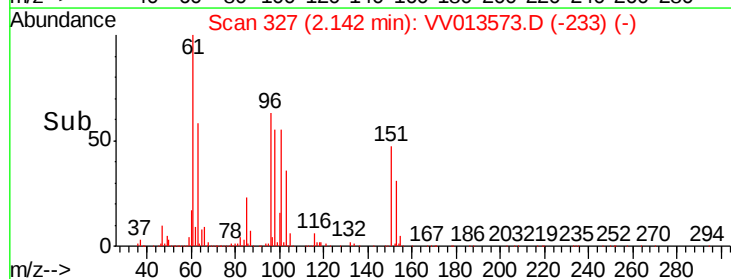
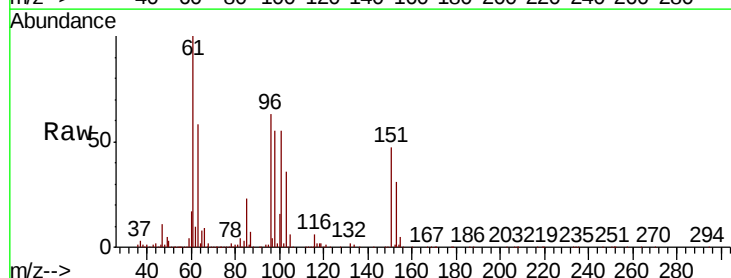
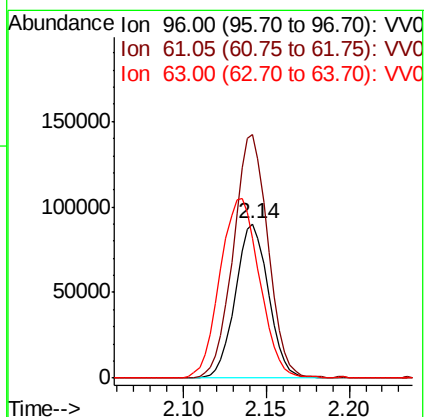
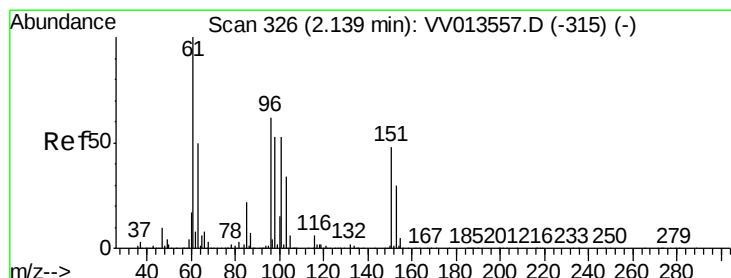
Tgt Ion: 96 Resp: 125530

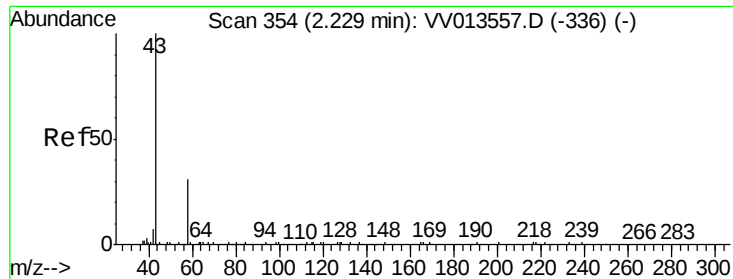
Ion Ratio Lower Upper

96 100

61 157.9 117.1 217.5

63 91.0 68.5 127.1





#13

Acetone

Concen: 47.579 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.04 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

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MSVOA_V

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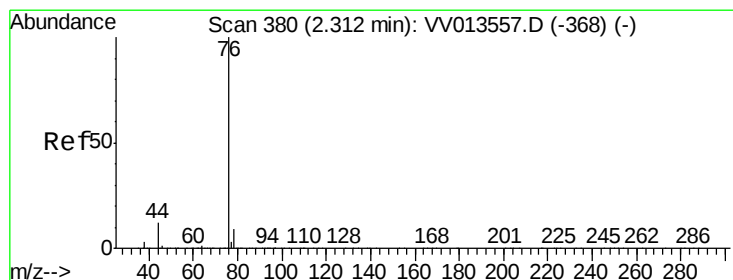
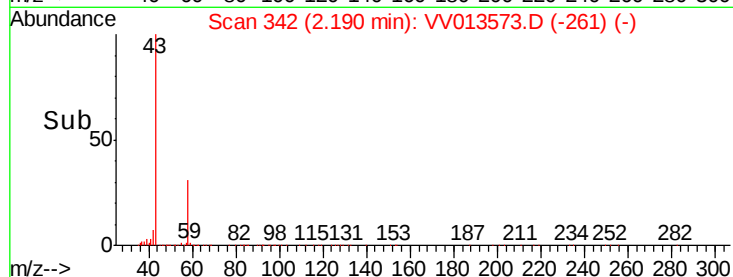
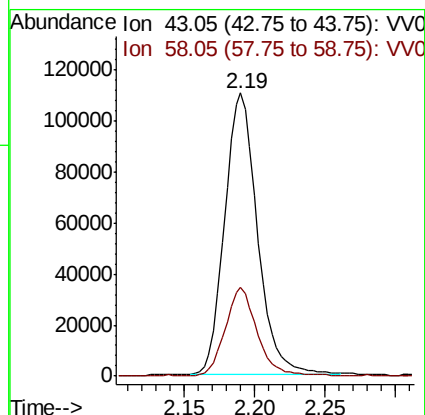
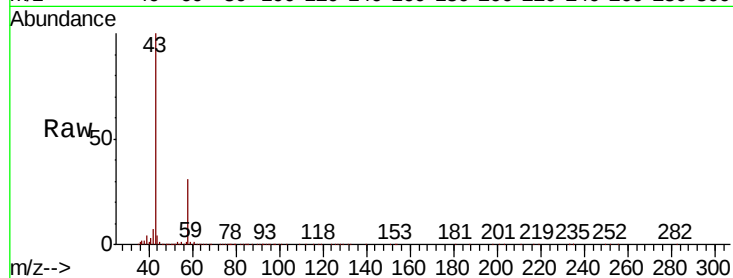
VSTD00552

Tot Ion: 43 Resp: 177794

Ion Ratio Lower Upper

43 100

58 30.2 0.0 60.8



#14

Carbon disulfide

Concen: 4.976 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV013573.D

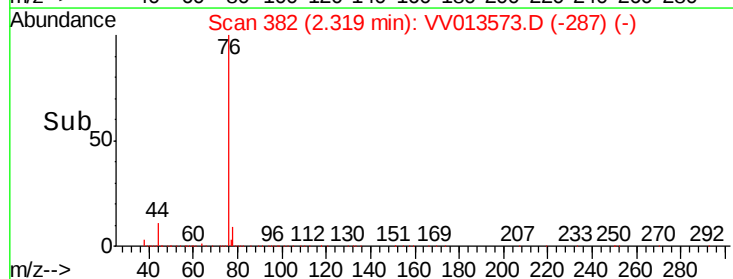
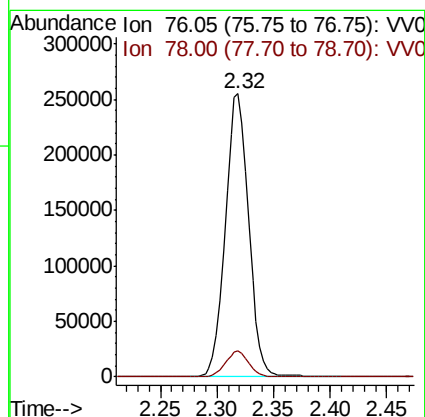
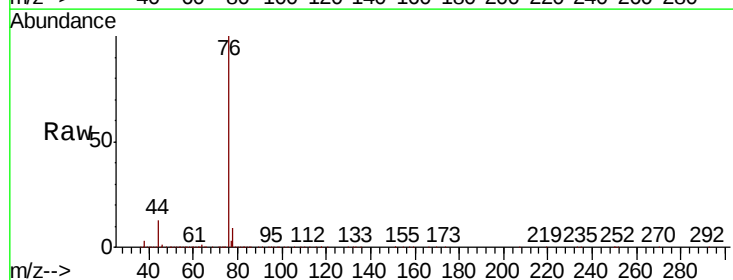
Acq: 09 Nov 2019 05:46

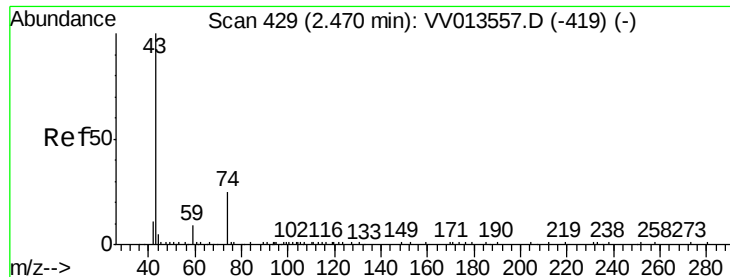
Tgt Ion: 76 Resp: 366641

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3

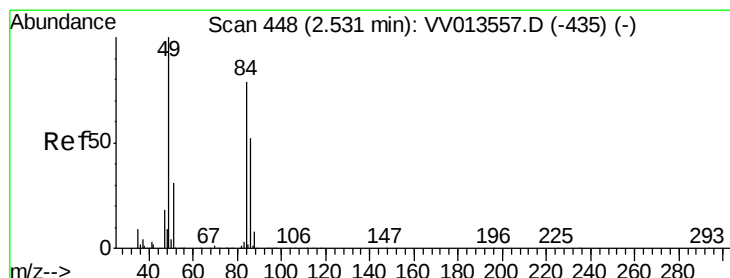
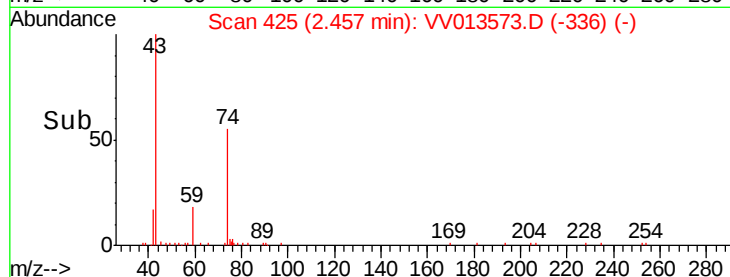
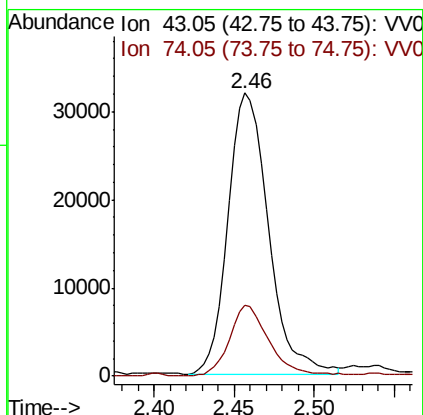
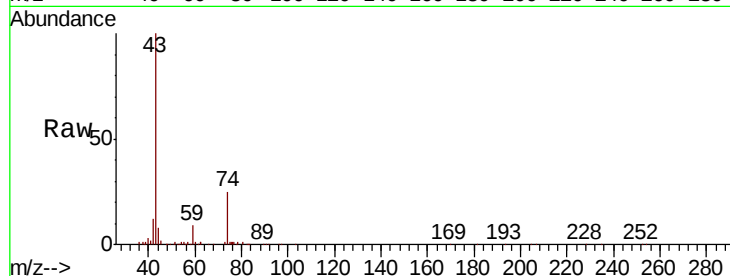




#15
Methvl Acetate
Concen: 4.929 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.01 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

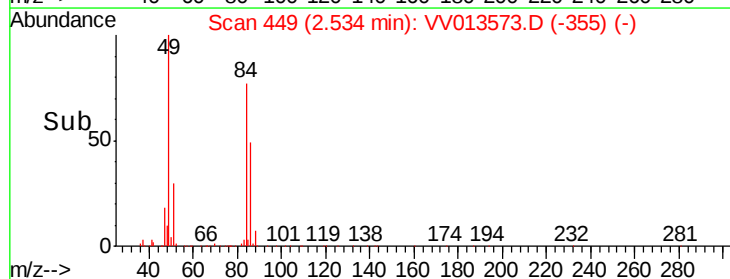
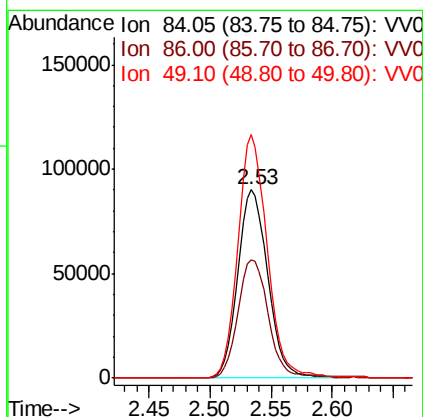
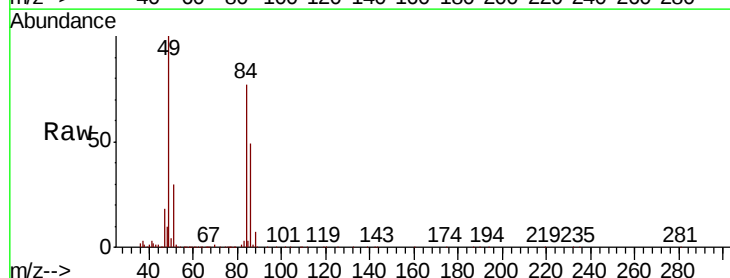
Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

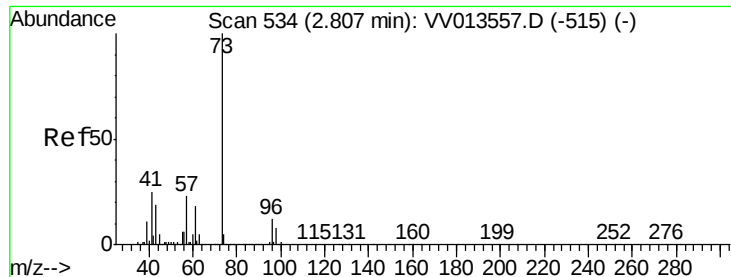
Tot Ion: 43 Resp: 55069
Ion Ratio Lower Upper
43 100
74 25.0 19.4 29.0



#16
Methylene chloride
Concen: 4.792 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

Tgt Ion: 84 Resp: 153897
Ion Ratio Lower Upper
84 100
86 63.2 44.2 82.2
49 129.5 88.8 164.8

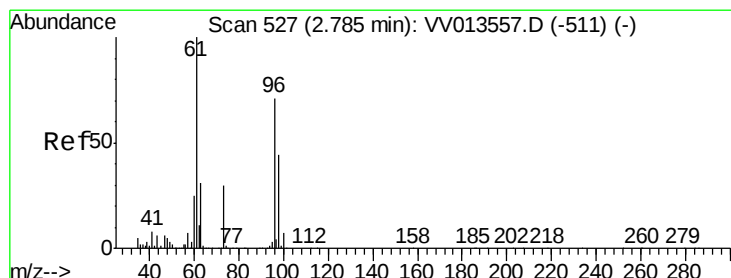
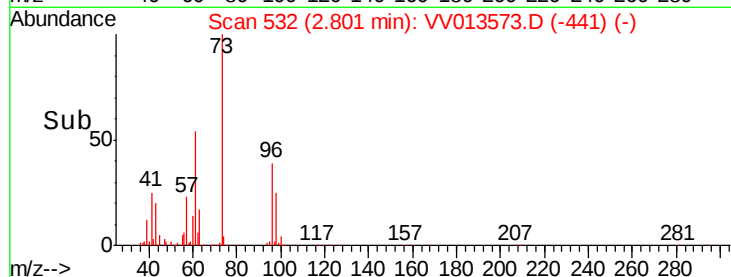
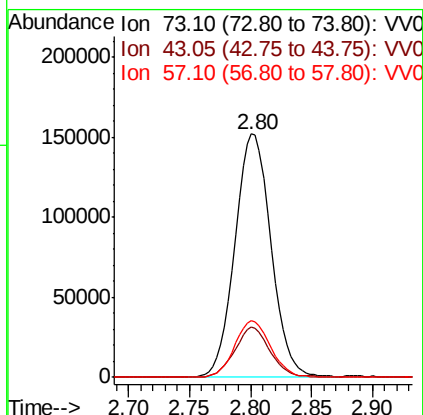
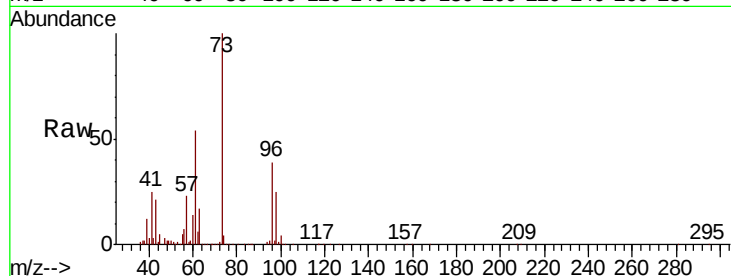




#17
Methvl tert-butvl Ether
Concen: 4.809 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.01 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

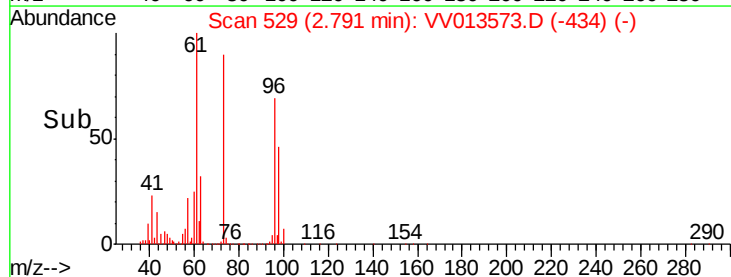
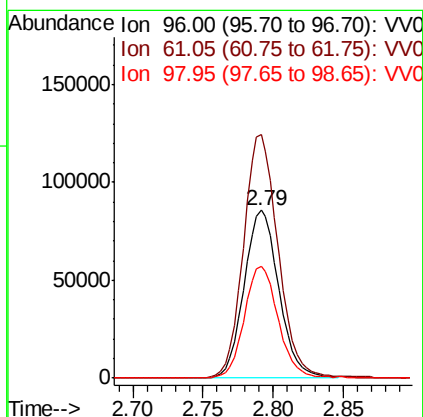
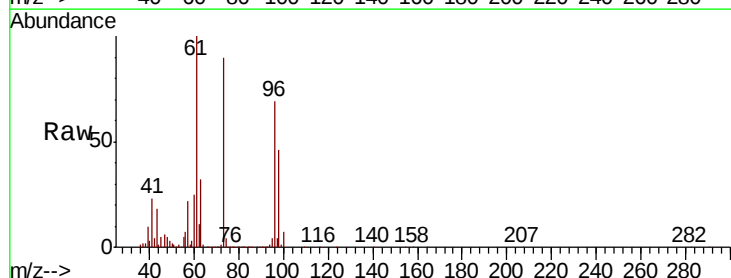
Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

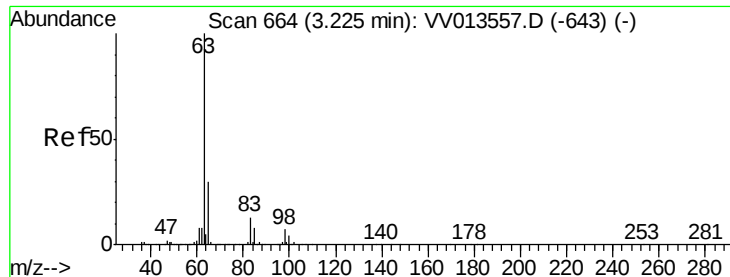
Tot Ion: 73 Resp: 311536
Ion Ratio Lower Upper
73 100
43 20.5 16.4 24.6
57 23.3 18.2 27.2



#18
trans-1,2-Dichloroethene
Concen: 4.872 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

Tgt Ion: 96 Resp: 148217
Ion Ratio Lower Upper
96 100
61 145.3 100.0 185.8
98 66.8 45.3 84.1





#19

1,1-Dichloroethane

Concen: 4.930 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

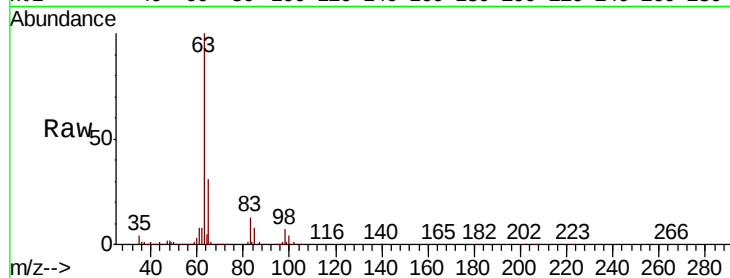
Tot Ion: 63 Resp: 279848

Ion Ratio Lower Upper

63 100

65 30.7 22.9 42.5

83 13.2 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VV013557.D (-643) (-)

Ion 65.10 (64.80 to 65.80): VV013557.D (-643) (-)

Ion 83.05 (82.75 to 83.75): VV013557.D (-643) (-)

150000

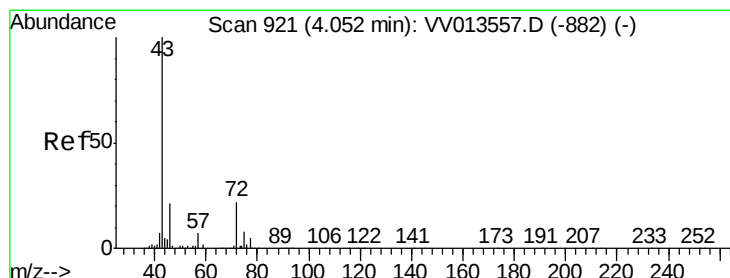
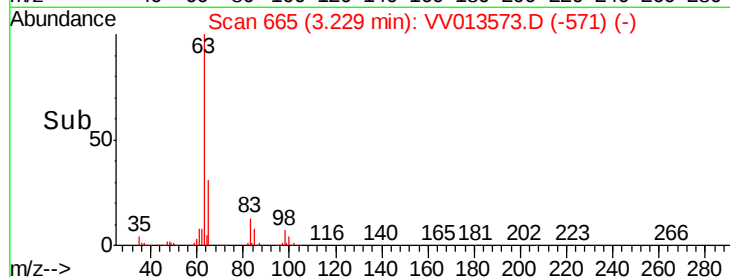
100000

50000

0

3.10 3.20 3.30

Time-->



#21

2-Butanone

Concen: 49.988 ug/L

RT: 4.01 min Scan# 909

Delta R.T. -0.04 min

Lab File: VV013573.D

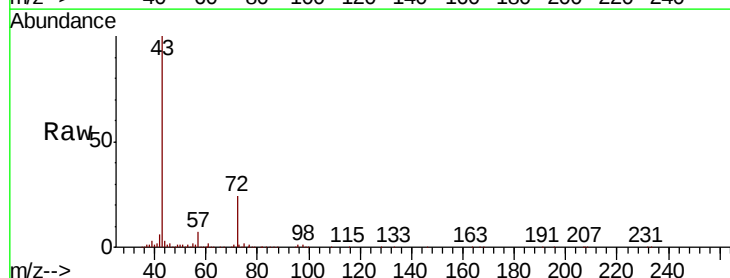
Acq: 09 Nov 2019 05:46

Tgt Ion: 43 Resp: 341672

Ion Ratio Lower Upper

43 100

72 23.6 11.6 34.7



Abundance Ion 43.05 (42.75 to 43.75): VV013557.D (-882) (-)

Ion 72.10 (71.80 to 72.80): VV013557.D (-882) (-)

150000

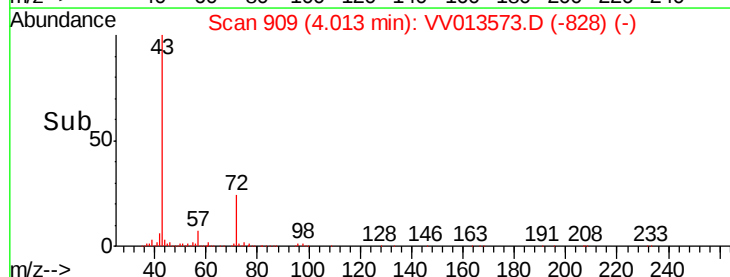
100000

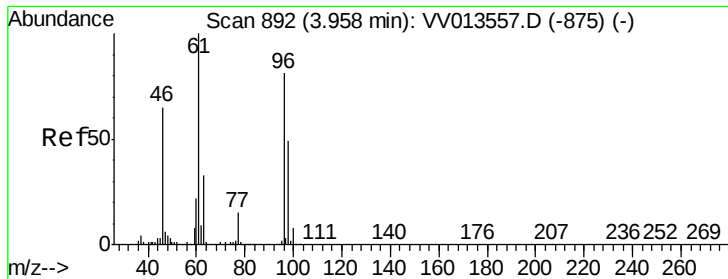
50000

0

3.90 4.00 4.10 4.20

Time-->



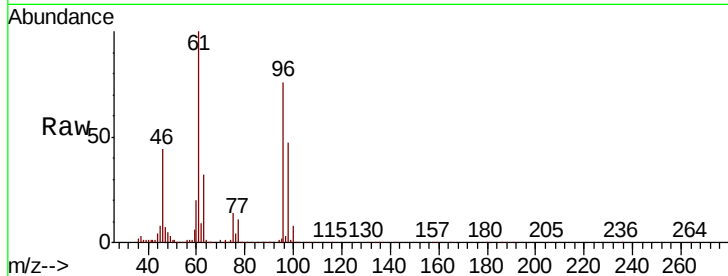


#22

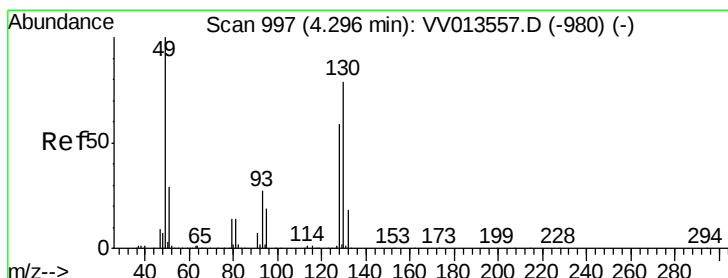
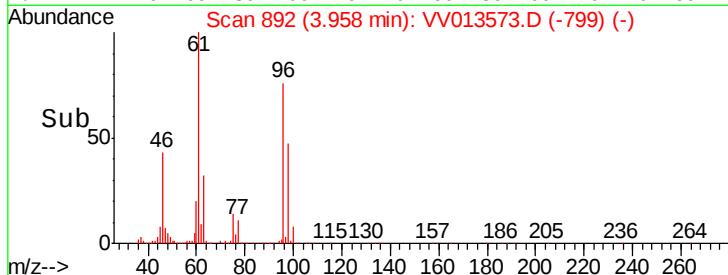
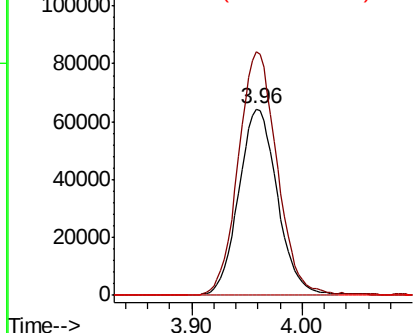
cis-1,2-Dichloroethene
 Concen: 4.995 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00552

Tot Ion: 96 Resp: 156706
 Ion Ratio Lower Upper
 96 100
 61 130.9 94.6 175.8
 68 0.0 0.1 0.3#



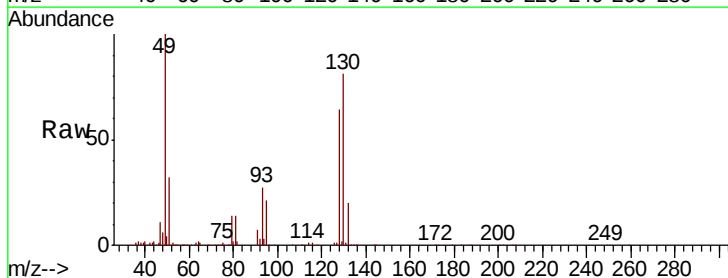
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



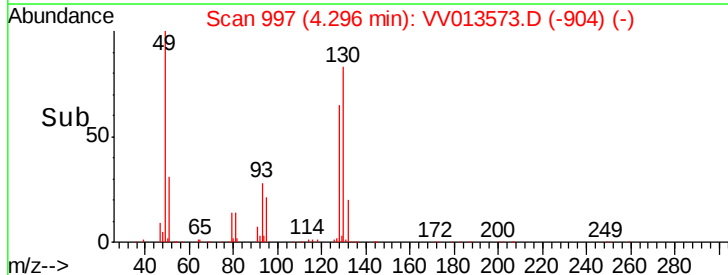
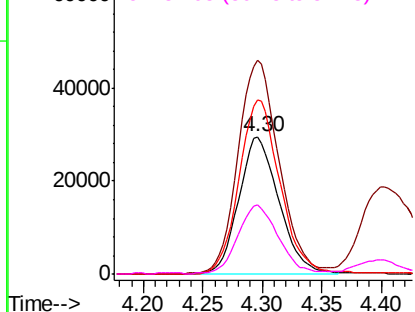
#23

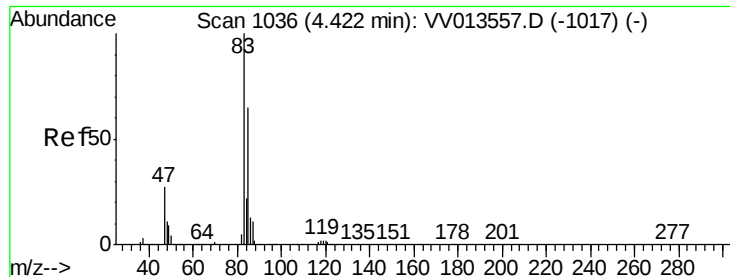
Bromochloromethane
 Concen: 4.750 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Tgt Ion: 128 Resp: 69012
 Ion Ratio Lower Upper
 128 100
 49 155.7 115.9 215.3
 130 126.8 87.6 162.6
 51 50.1 40.6 61.0



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0





#25

Chloroform

Concen: 4.867 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

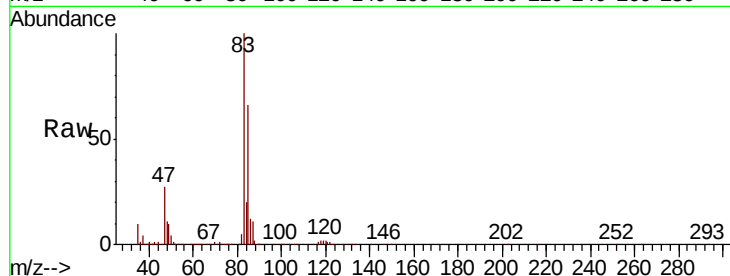
VSTD00552

Tot Ion: 83 Resp: 301249

Ion Ratio Lower Upper

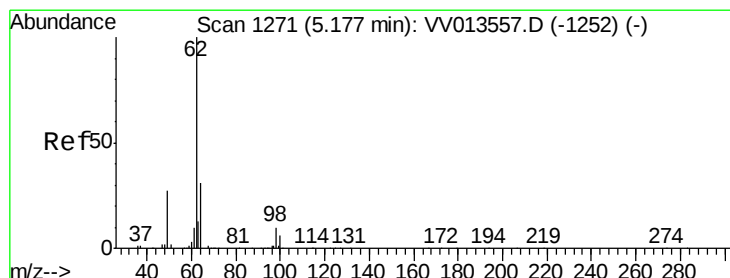
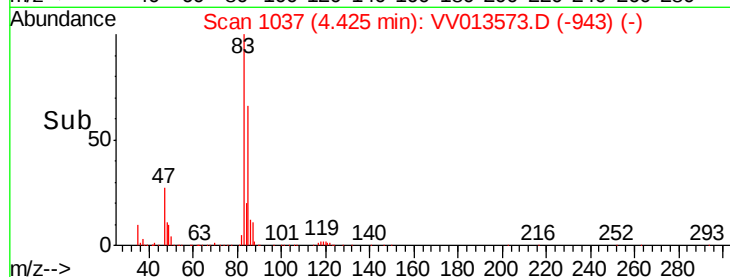
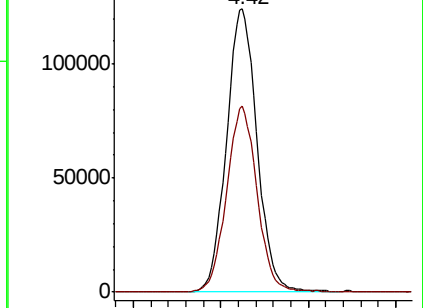
83 100

85 65.7 46.3 86.1



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#27

1,2-Dichloroethane

Concen: 5.094 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VV013573.D

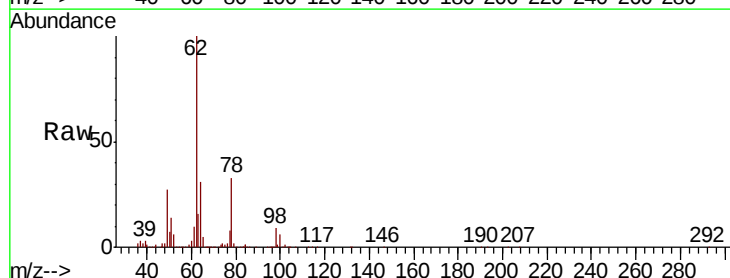
Acq: 09 Nov 2019 05:46

Tgt Ion: 62 Resp: 170277

Ion Ratio Lower Upper

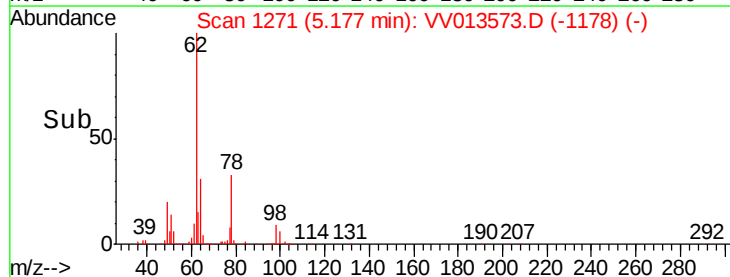
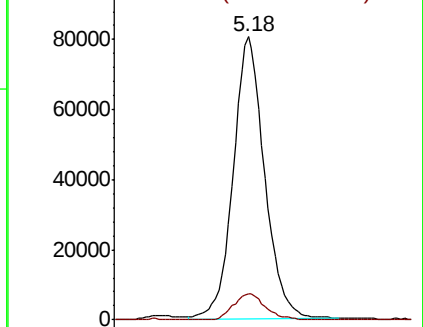
62 100

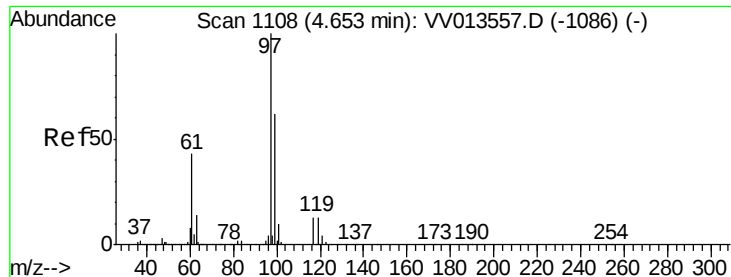
98 9.2 7.4 11.0



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: 4.921 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

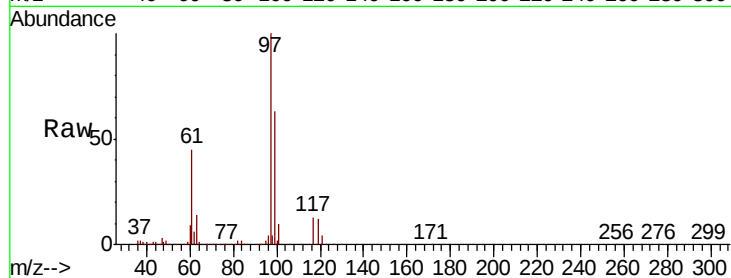
Tot Ion: 97 Resp: 240613

Ion Ratio Lower Upper

97 100

99 63.5 50.4 75.6

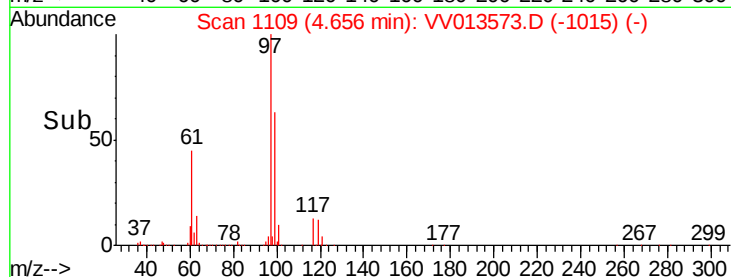
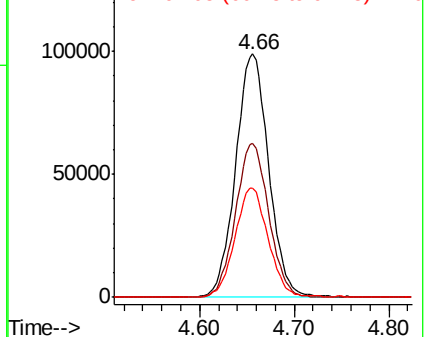
61 45.4 35.5 53.3



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: 4.913 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

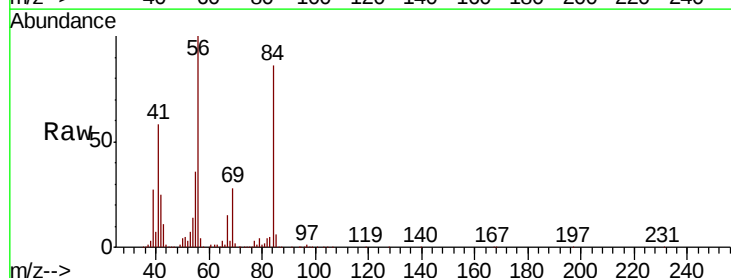
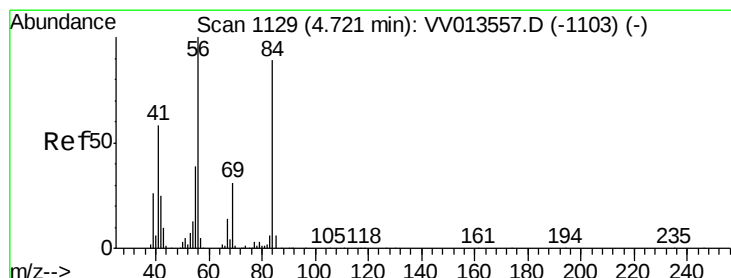
Tgt Ion: 56 Resp: 241786

Ion Ratio Lower Upper

56 100

69 29.0 22.9 34.3

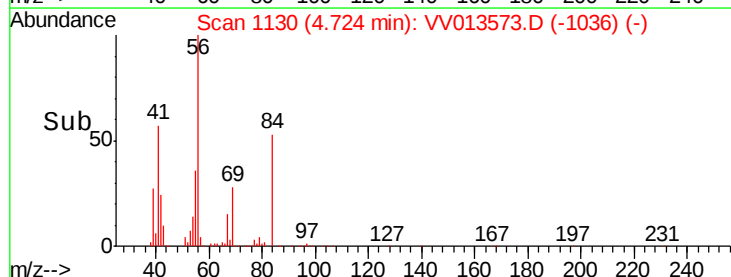
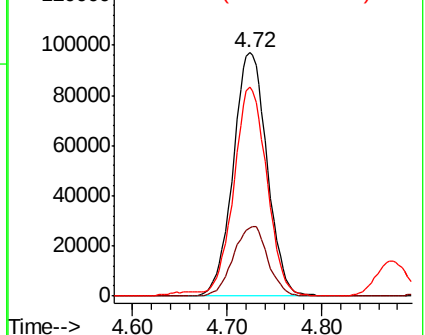
84 83.9 67.2 100.8

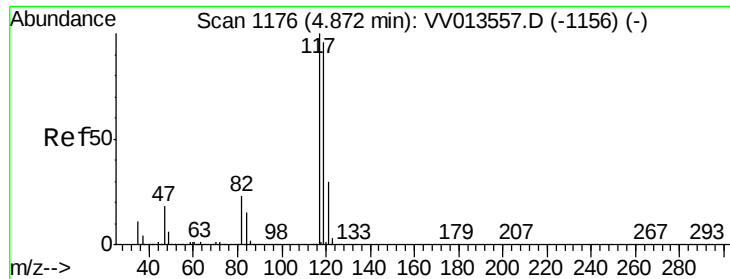


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0

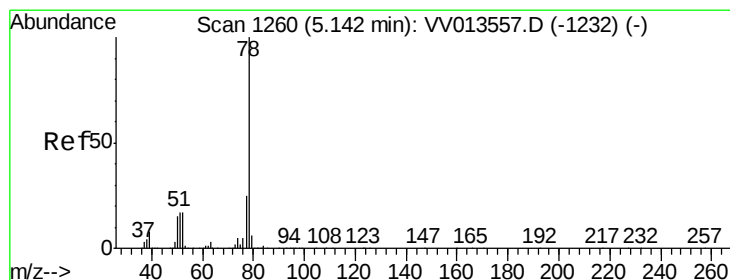
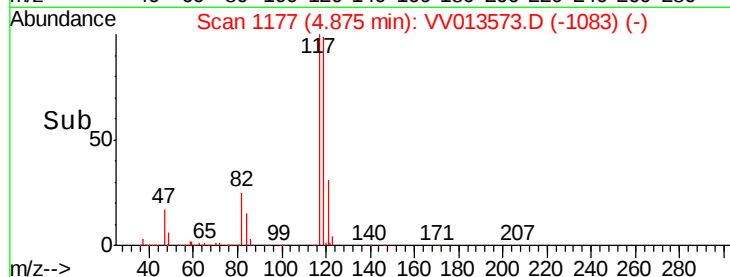
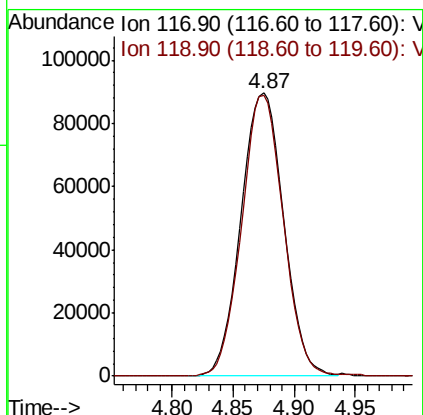
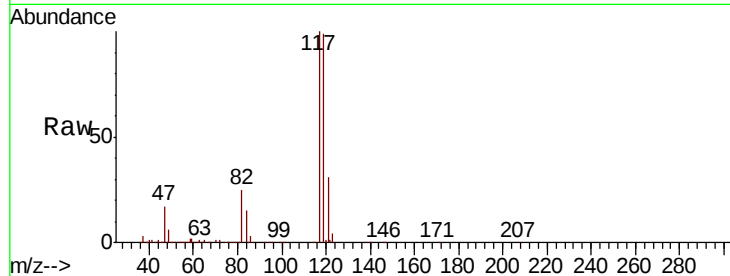




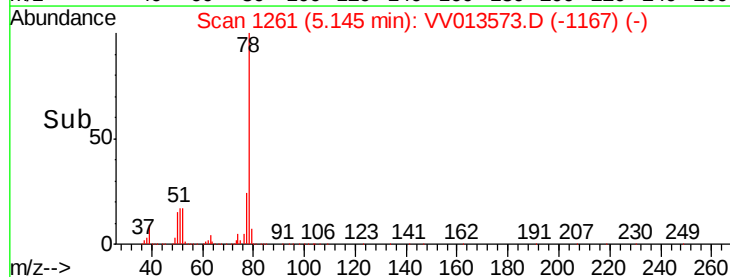
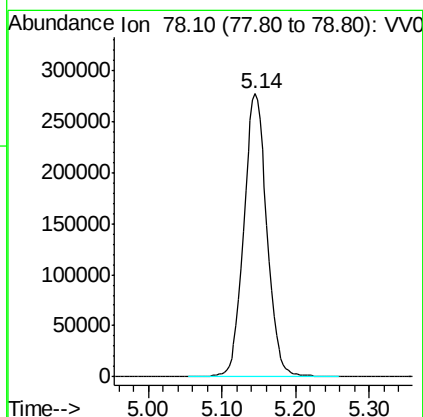
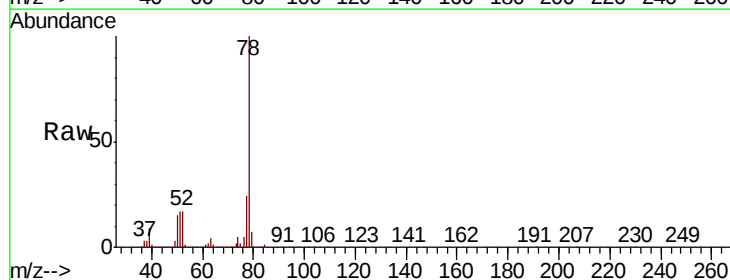
#31
Carbon tetrachloride
Concen: 4.954 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

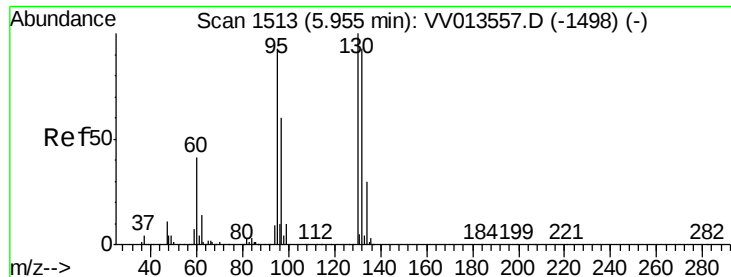
Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

Tot Ion:117 Resp: 217268
Ion Ratio Lower Upper
117 100
119 96.9 77.0 115.4



#33
Benzene
Concen: 4.931 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46
Tgt Ion: 78 Resp: 604316

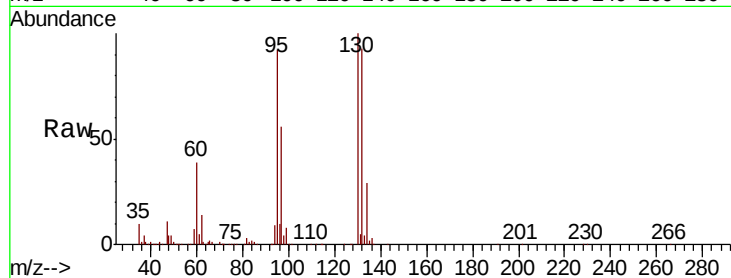




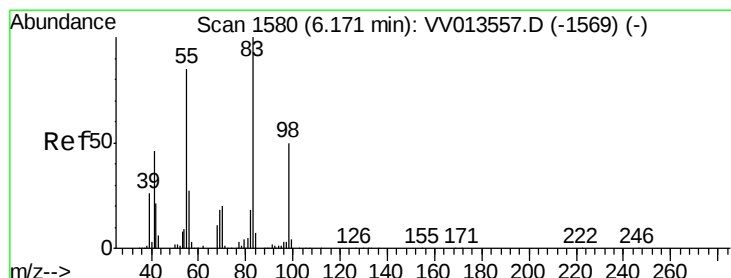
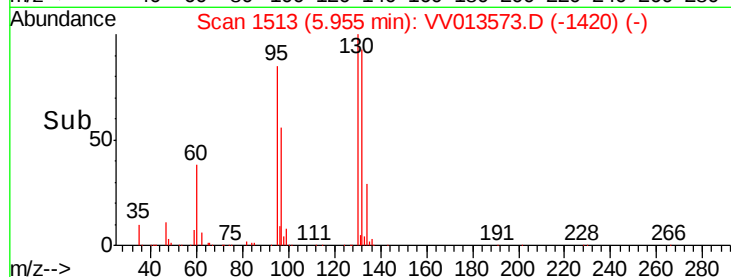
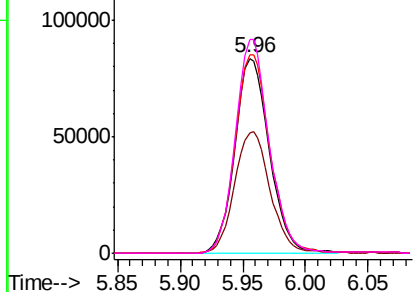
#34
 Trichloroethene
 Concen: 4.850 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

Tot Ion: 95 Resp: 160242
 Ion Ratio Lower Upper
 95 100
 97 61.7 44.7 83.1
 132 101.8 71.6 133.0
 130 109.2 74.6 138.6

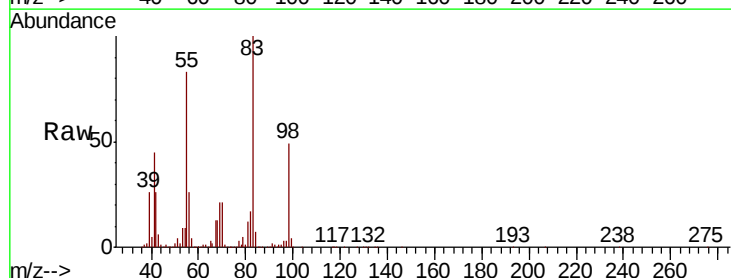


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

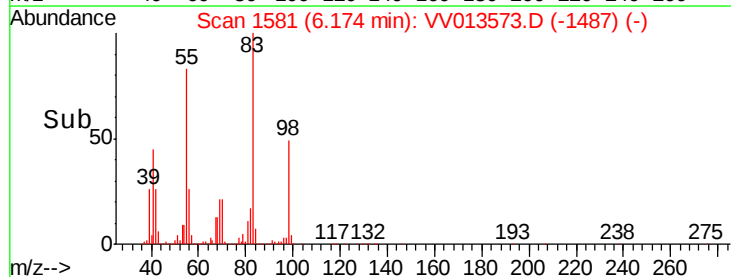
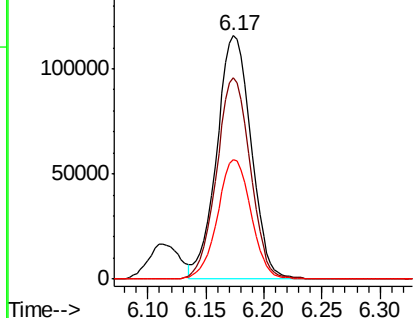


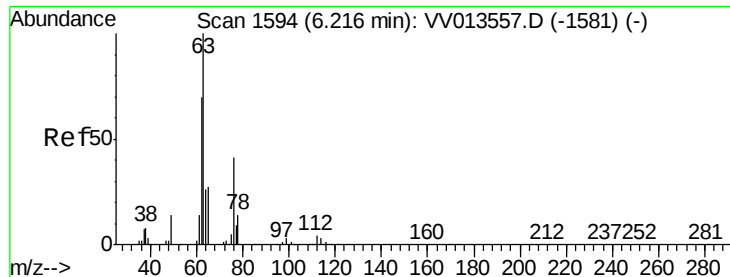
#35
 Methylcyclohexane
 Concen: 4.738 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Tgt Ion: 83 Resp: 237988
 Ion Ratio Lower Upper
 83 100
 55 80.7 63.8 95.8
 98 47.9 38.4 57.6



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: 5.023 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

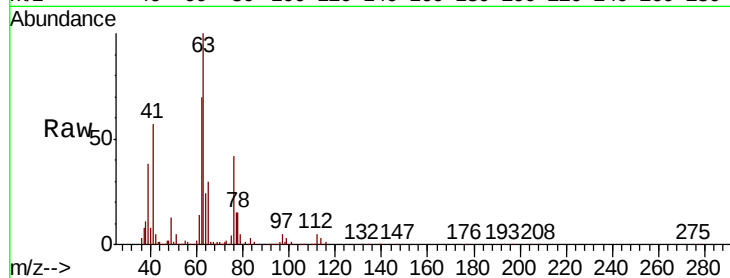
VSTD00552

Tot Ion: 63 Resp: 151395

Ion Ratio Lower Upper

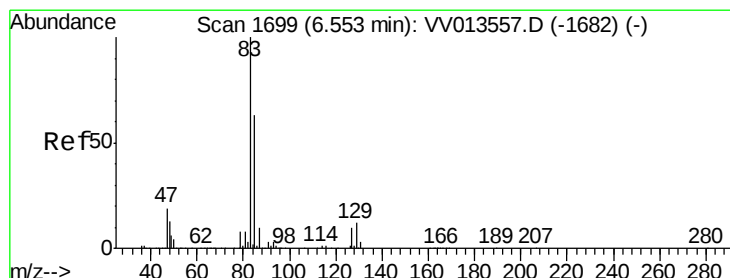
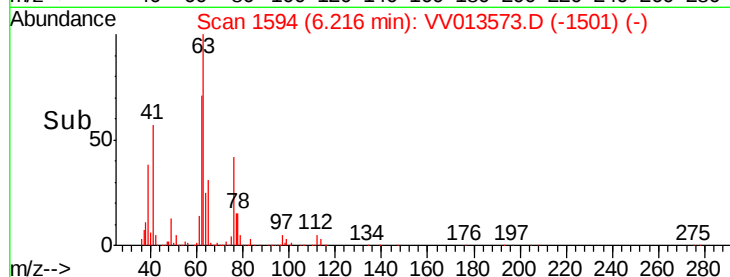
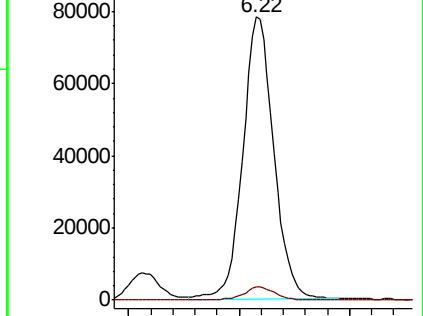
63 100

112 4.9 3.8 5.6



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 4.987 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

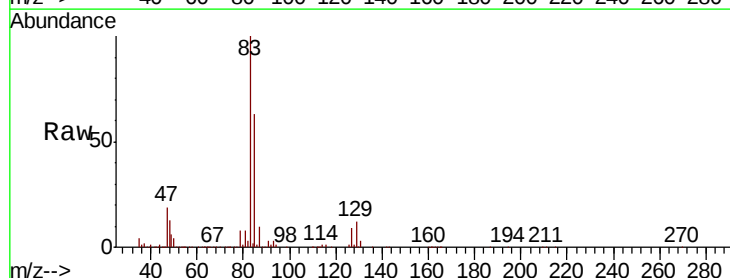
Tgt Ion: 83 Resp: 194042

Ion Ratio Lower Upper

83 100

85 63.4 43.6 81.0

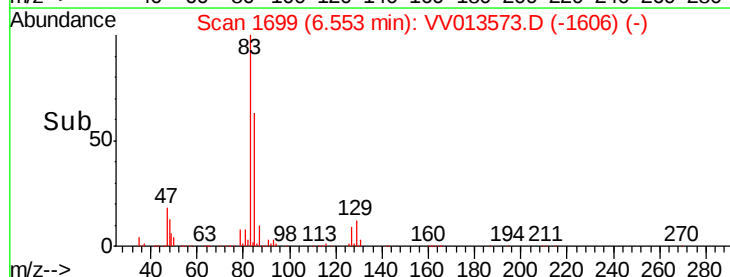
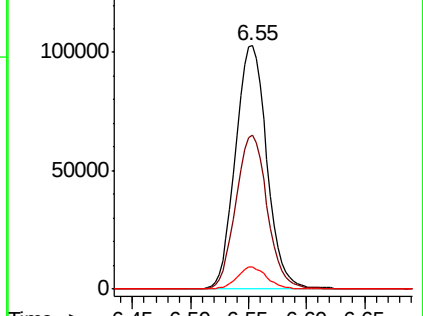
127 8.9 6.5 9.7

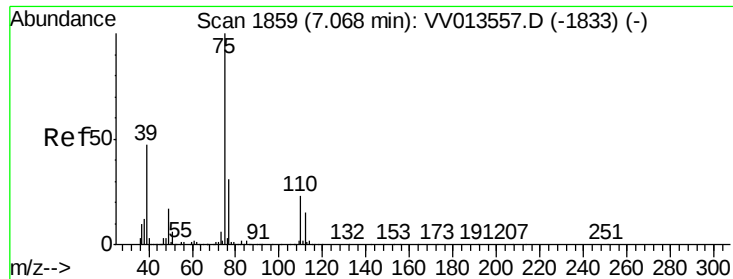


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 126.90 (126.60 to 127.60): V





#39

cis-1,3-Dichloropropene

Concen: 4.656 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

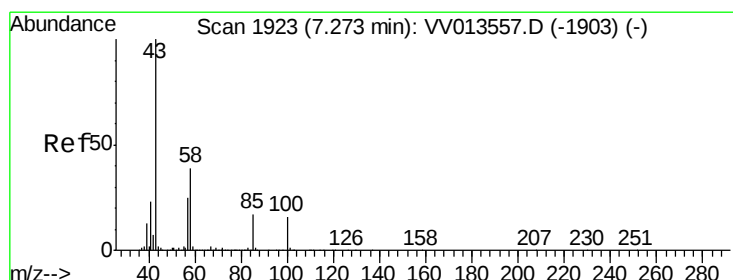
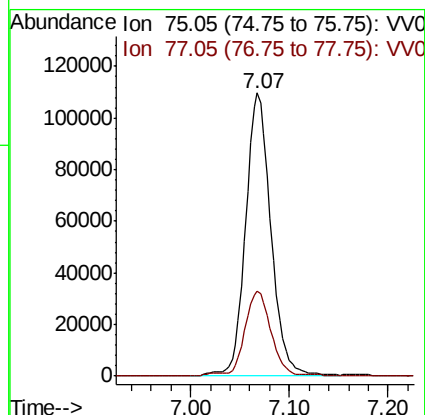
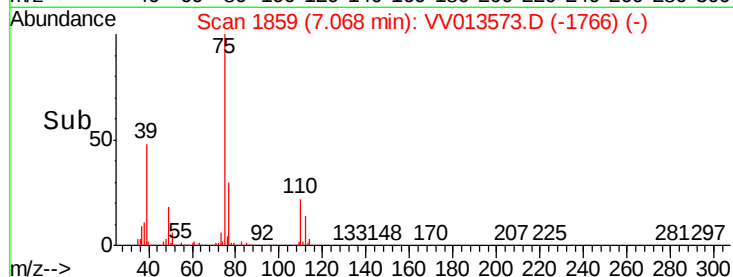
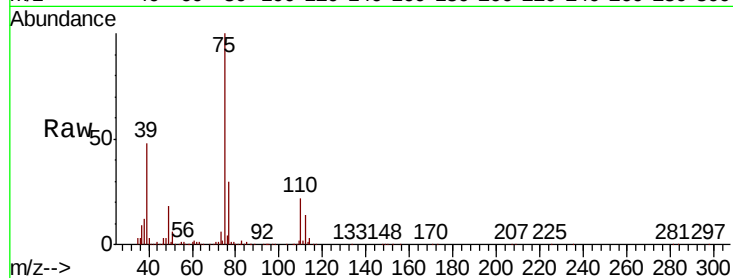
VSTD00552

Tot Ion: 75 Resp: 194994

Ion Ratio Lower Upper

75 100

77 29.9 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 49.374 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. -0.01 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

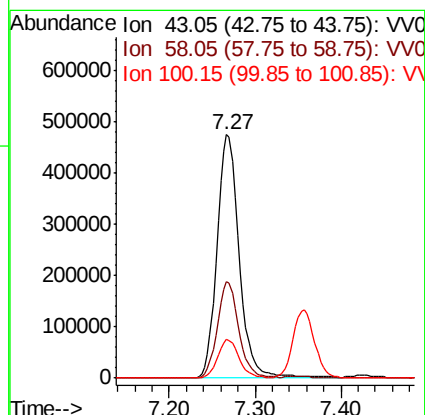
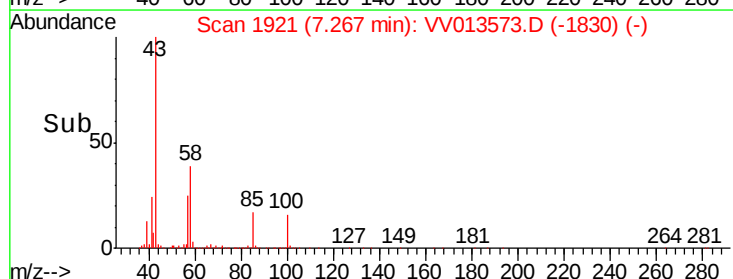
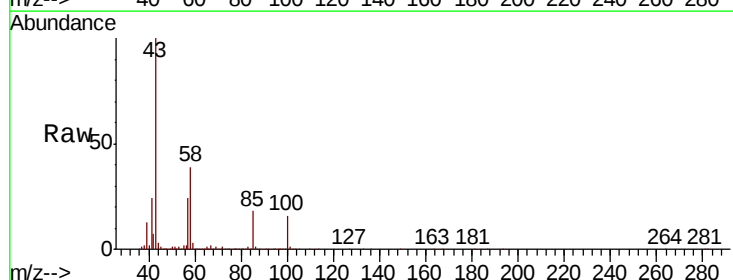
Tgt Ion: 43 Resp: 855983

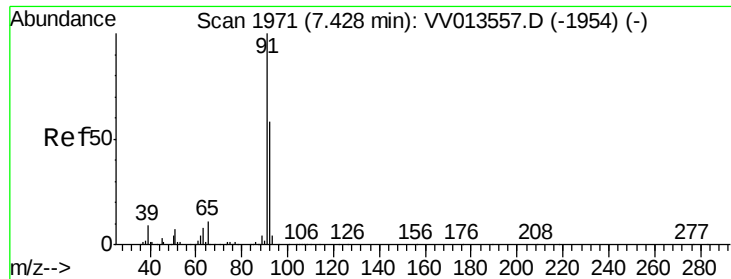
Ion Ratio Lower Upper

43 100

58 38.1 30.6 45.8

100 15.2 12.0 18.0





#42

Toluene

Concen: 5.181 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

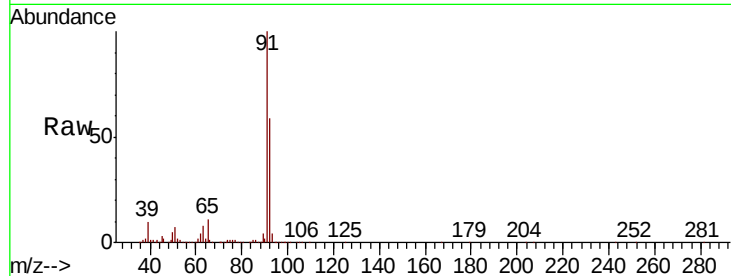
VSTD00552

Tot Ion: 91 Resp: 660268

Ion Ratio Lower Upper

91 100

92 58.9 41.4 77.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

400000

300000

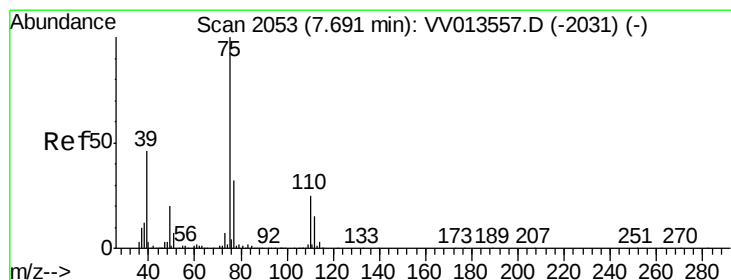
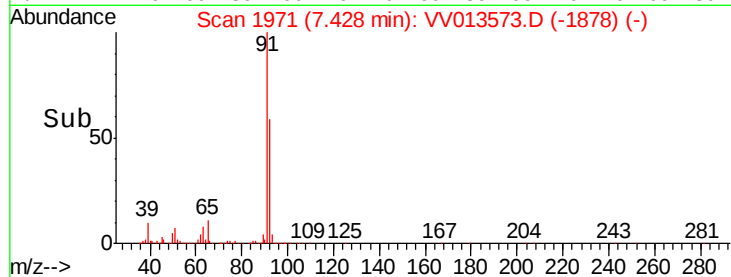
200000

100000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.642 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV013573.D

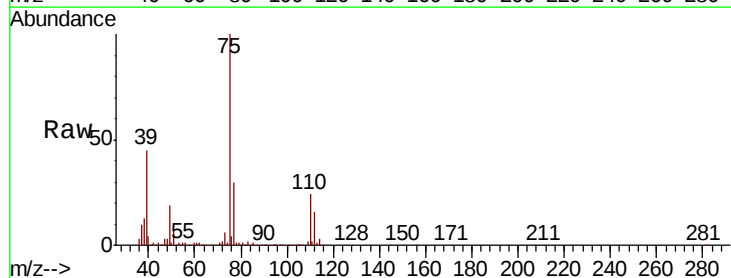
Acq: 09 Nov 2019 05:46

Tgt Ion: 75 Resp: 152844

Ion Ratio Lower Upper

75 100

77 29.9 22.2 41.2



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

100000

80000

60000

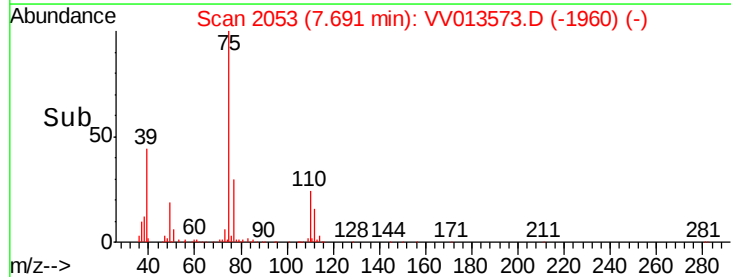
40000

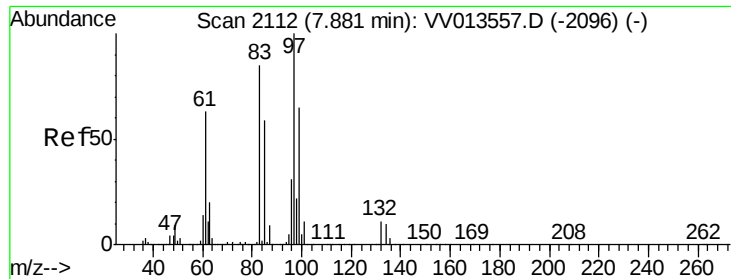
20000

0

7.60 7.65 7.70 7.75 7.80

Time-->

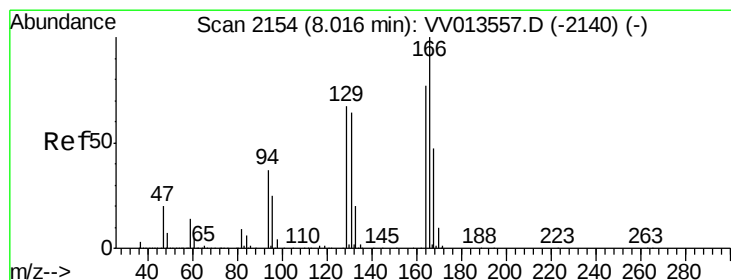
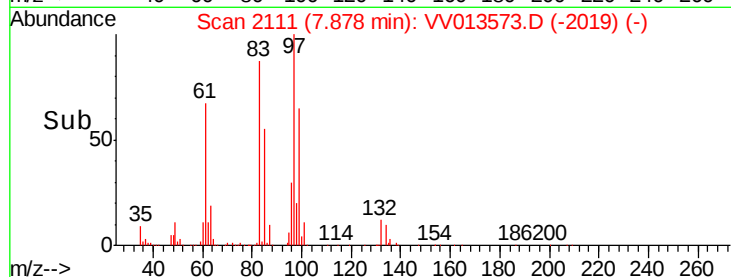
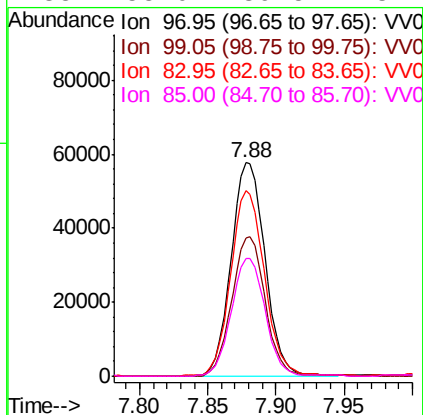
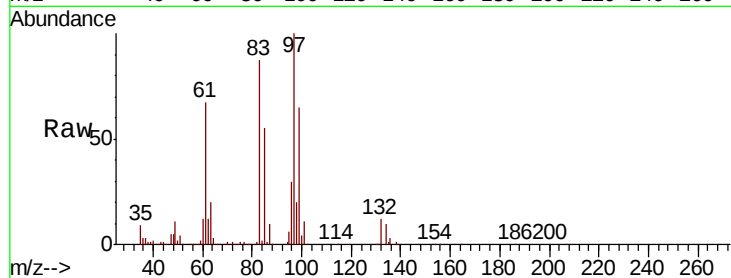




#45
 1,1,2-Trichloroethane
 Concen: 4.831 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

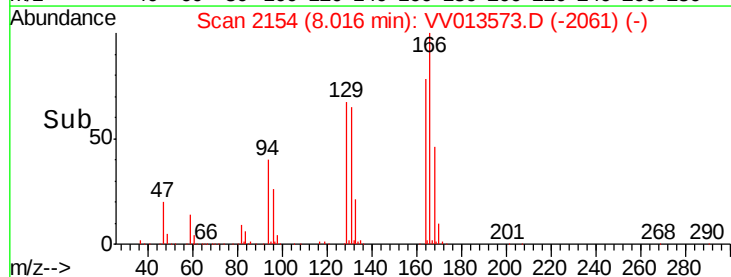
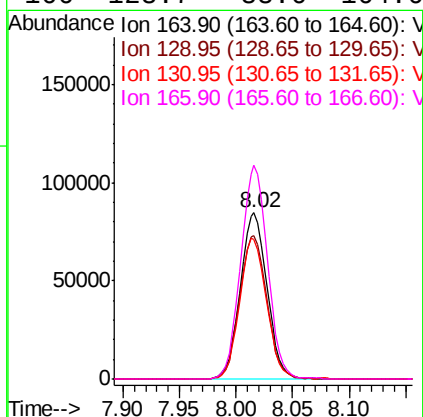
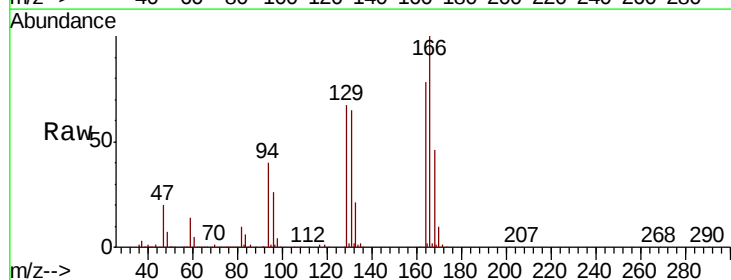
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

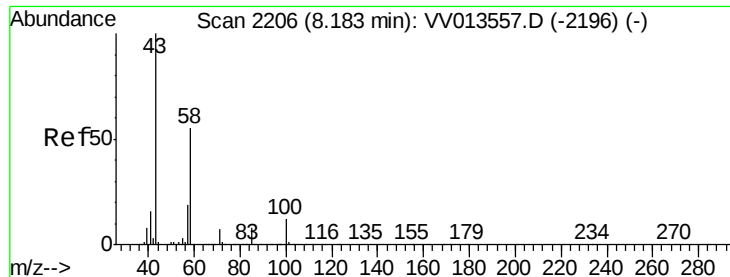
Tot Ion:	97	Resp:	100067
Ion	Ratio	Lower	Upper
97	100		
99	64.5	44.4	82.5
83	86.9	57.5	106.7
85	55.0	39.5	73.4



#47
 Tetrachloroethene
 Concen: 4.853 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Tgt Ion:	164	Resp:	140196
Ion	Ratio	Lower	Upper
164	100		
129	86.4	59.6	110.8
131	84.0	59.1	109.9
166	128.7	88.6	164.6

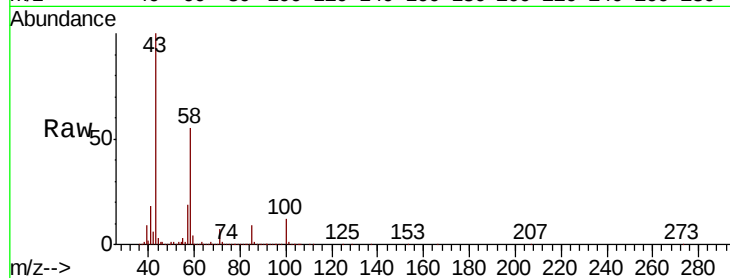




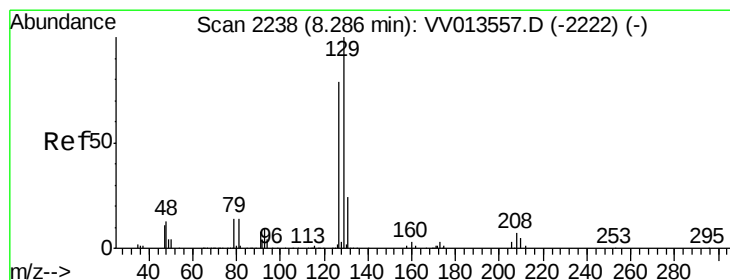
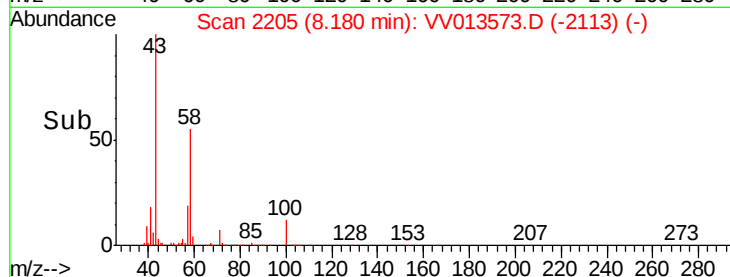
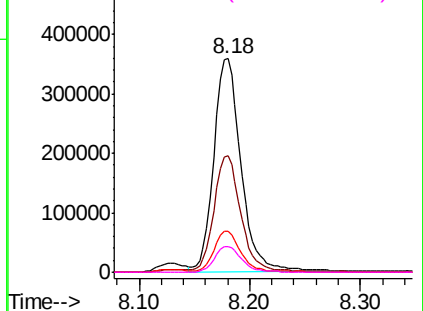
#48
2-Hexanone
Concen: 49.712 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

Tot Ion:	43	Resp:	610208
Ion	Ratio	Lower	Upper
43	100		
58	54.6	43.8	65.8
57	18.5	15.0	22.6
100	12.0	9.8	14.6

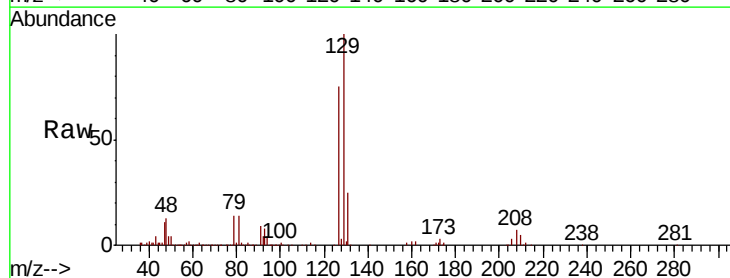


Abundance Ion 43.05 (42.75 to 43.75): VV013557.D (-2196) (-)
Ion 58.05 (57.75 to 58.75): VV013557.D (-2196) (-)
Ion 57.20 (56.90 to 57.90): VV013557.D (-2196) (-)
Ion 100.15 (99.85 to 100.85): VV013557.D (-2196) (-)

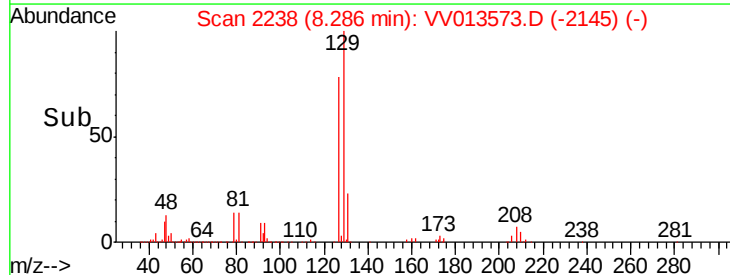
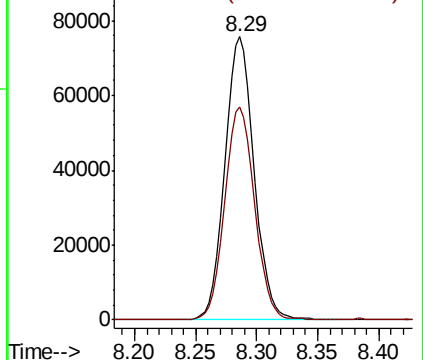


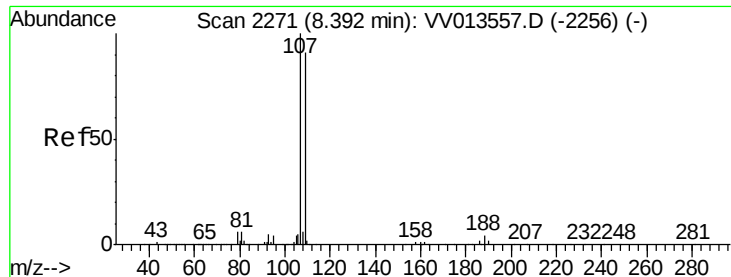
#49
Dibromochloromethane
Concen: 4.939 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV013573.D
Acq: 09 Nov 2019 05:46

Tgt Ion:	129	Resp:	127632
Ion	Ratio	Lower	Upper
129	100		
127	75.2	54.7	101.7



Abundance Ion 128.95 (128.65 to 129.65): VV013557.D (-2222) (-)
Ion 126.90 (126.60 to 127.60): VV013557.D (-2222) (-)

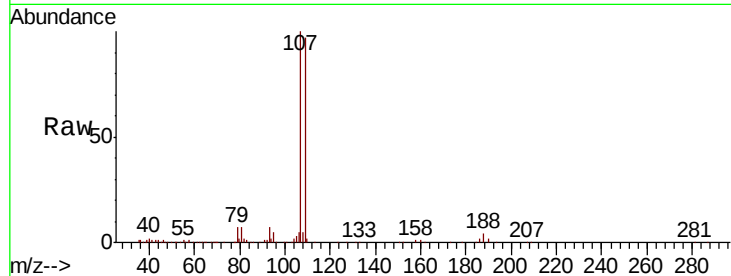




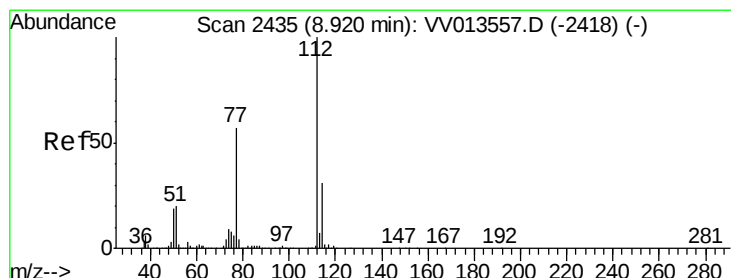
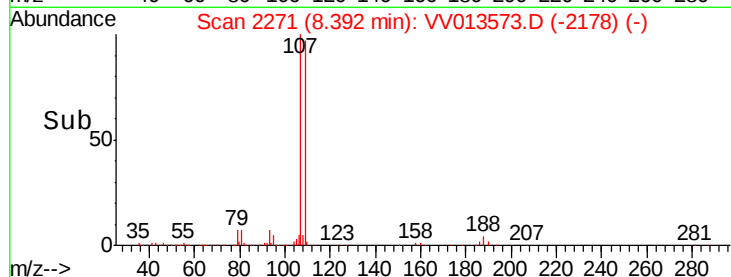
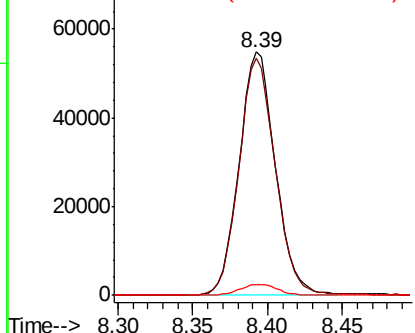
#50
 1,2-Dibromoethane
 Concen: 4.794 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

Tot Ion:107 Resp: 92740
 Ion Ratio Lower Upper
 107 100
 109 97.3 66.9 124.3
 188 4.3 3.4 5.0

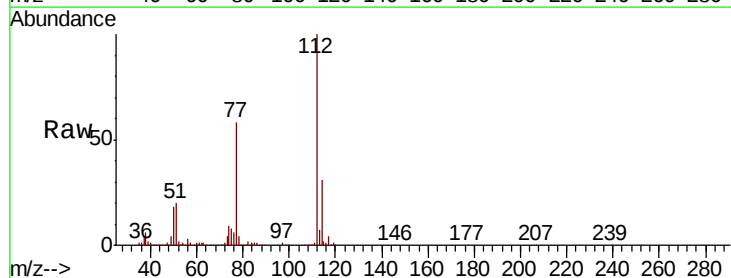


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

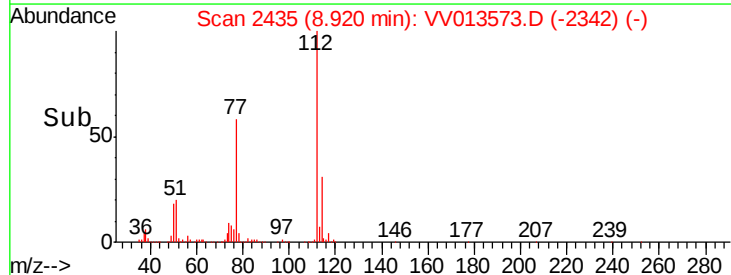
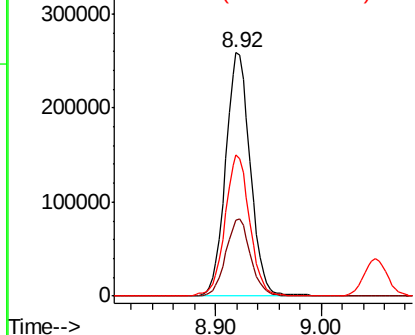


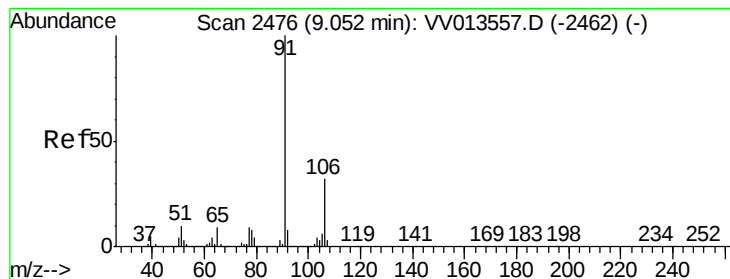
#51
 Chlorobenzene
 Concen: 4.974 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Tgt Ion:112 Resp: 418209
 Ion Ratio Lower Upper
 112 100
 114 31.0 22.6 42.0
 77 58.0 46.2 69.2



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





#52

Ethylbenzene

Concen: 4.969 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

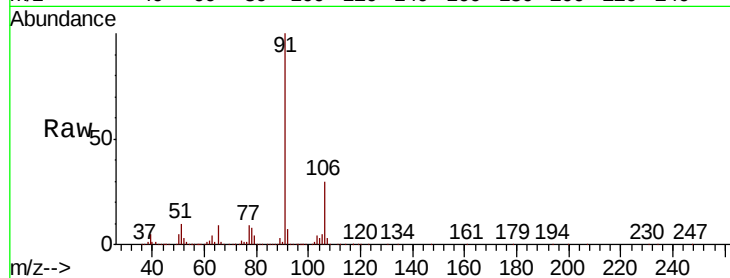
VSTD00552

Tot Ion: 91 Resp: 678473

Ion Ratio Lower Upper

91 100

106 30.3 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V

9.05

400000

300000

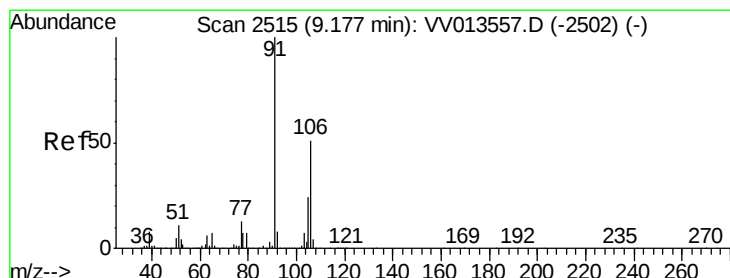
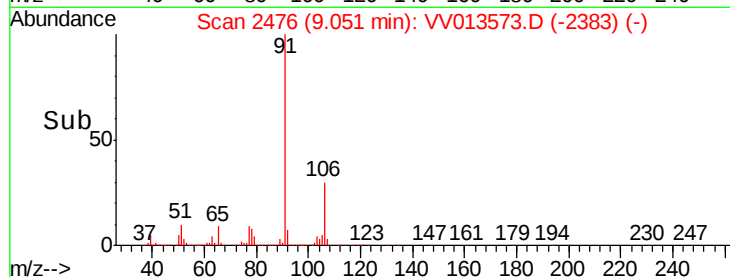
200000

100000

0

Time-->

9.00 9.05 9.10 9.15



#53

m,p-xylene

Concen: 5.123 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013573.D

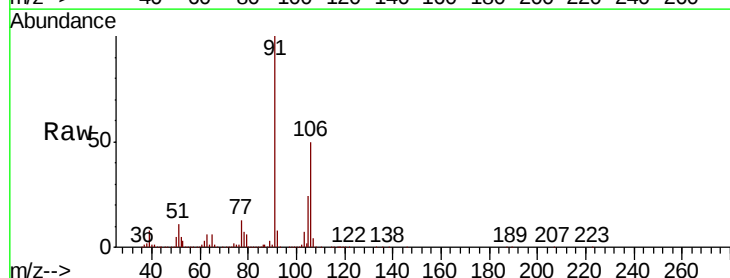
Acq: 09 Nov 2019 05:46

Tgt Ion: 106 Resp: 260910

Ion Ratio Lower Upper

106 100

91 199.0 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

9.18

300000

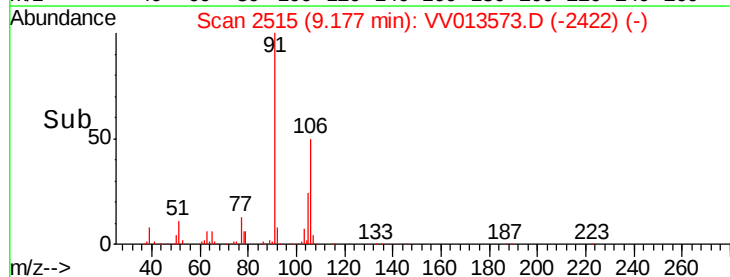
200000

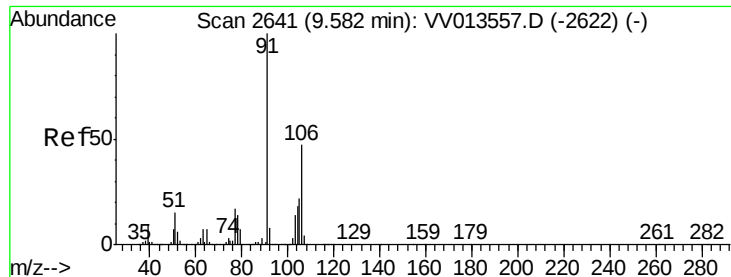
100000

0

Time-->

9.10 9.15 9.20 9.25 9.30





#54

o-xylene

Concen: 5.106 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

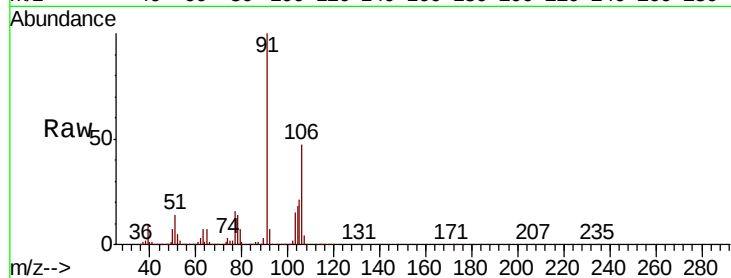
VSTD00552

Tot Ion:106 Resp: 249791

Ion Ratio Lower Upper

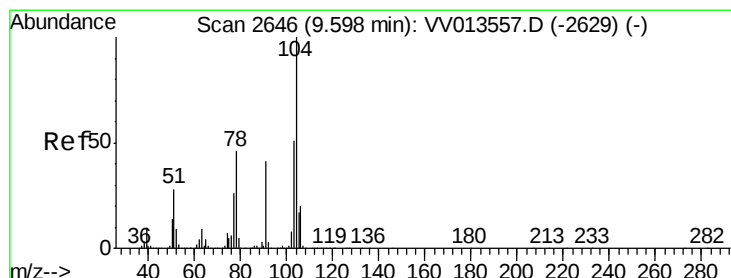
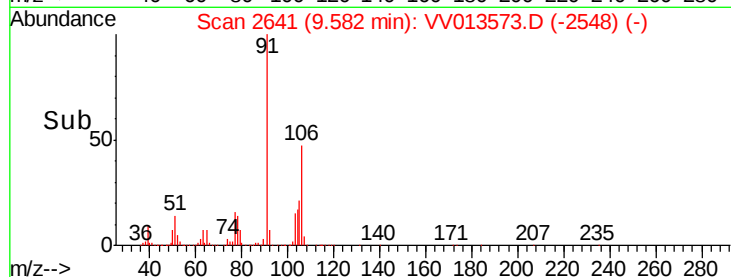
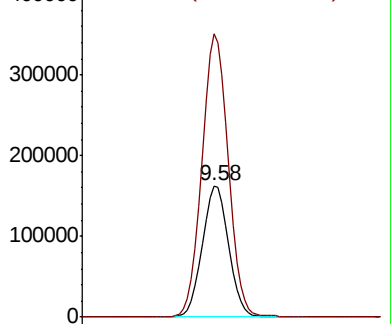
106 100

91 214.9 150.8 280.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.332 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV013573.D

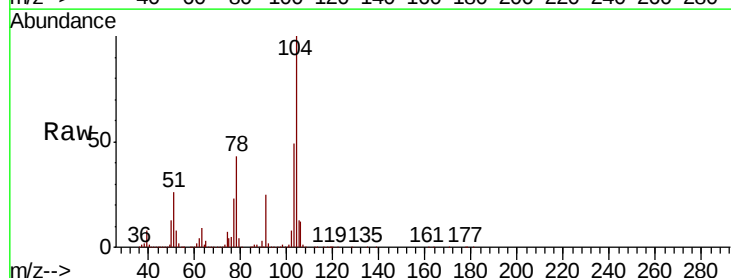
Acq: 09 Nov 2019 05:46

Tgt Ion:104 Resp: 442347

Ion Ratio Lower Upper

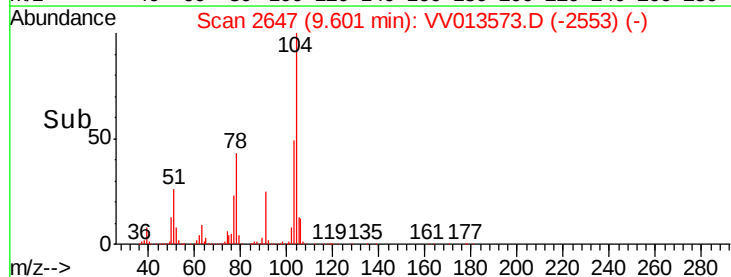
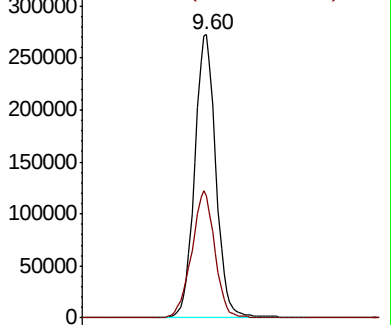
104 100

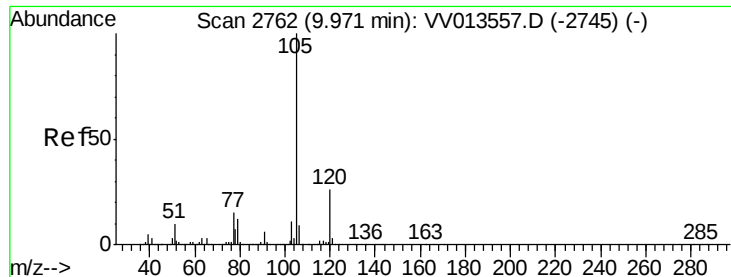
78 43.0 30.8 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.130 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

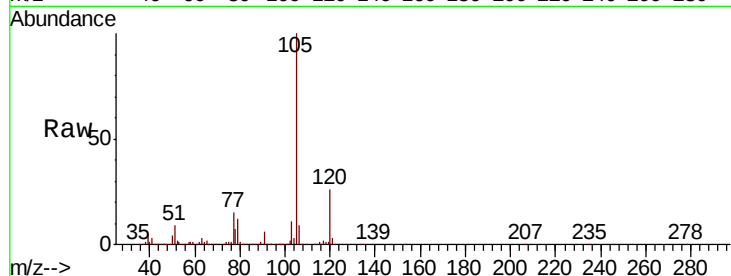
Tot Ion:105 Resp: 677461

Ion Ratio Lower Upper

105 100

120 26.3 20.9 31.3

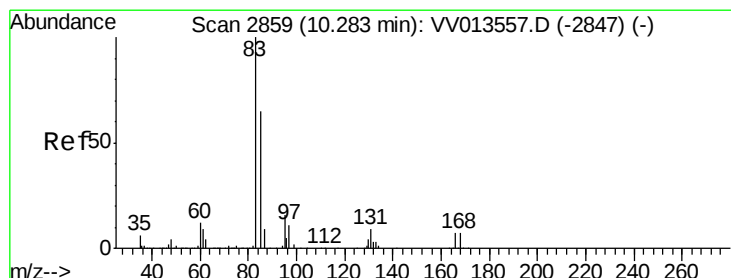
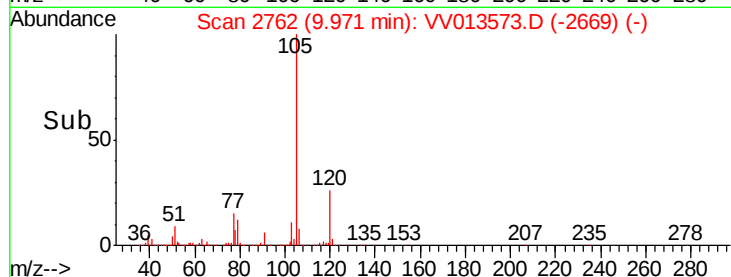
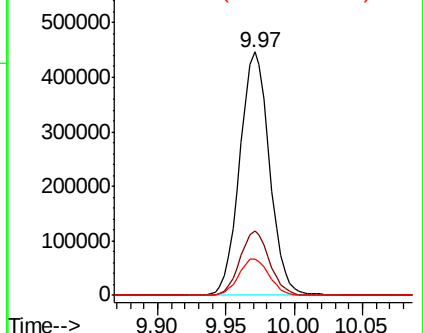
77 15.2 12.3 18.5



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: 4.930 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

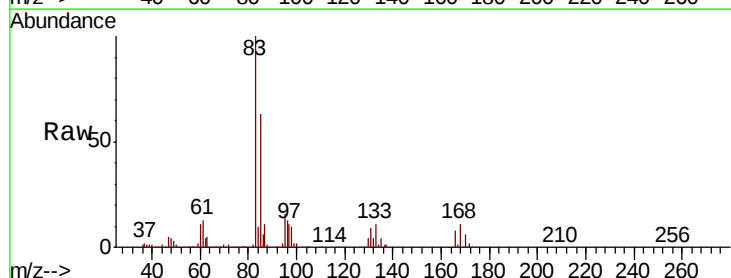
Tgt Ion: 83 Resp: 109010

Ion Ratio Lower Upper

83 100

85 62.6 44.1 81.9

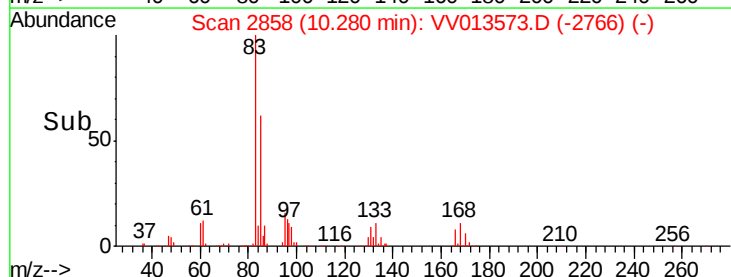
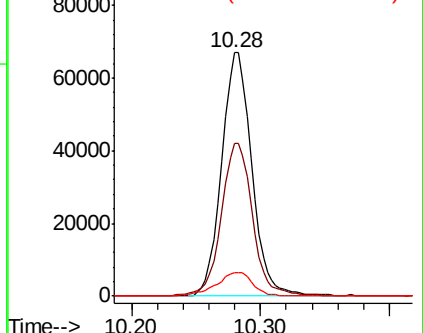
131 9.5 8.5 12.7

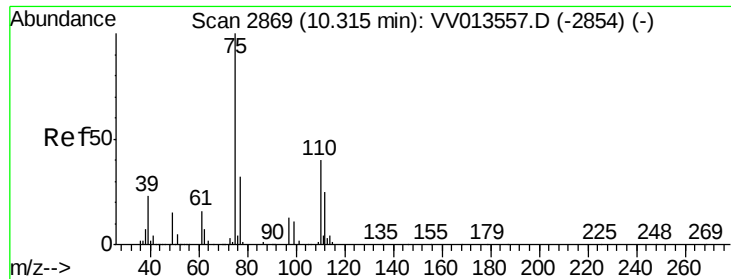


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.961 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

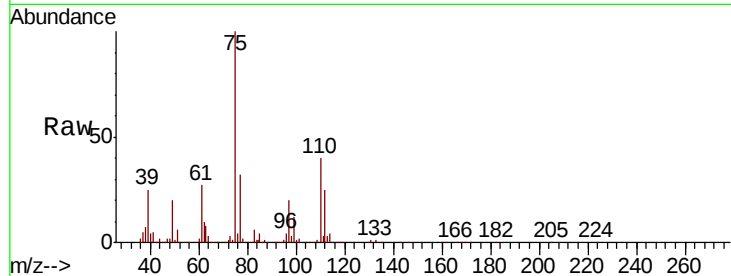
VSTD00552

Tot Ion: 75 Resp: 88775

Ion Ratio Lower Upper

75 100

77 32.0 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

60000

50000

40000

30000

20000

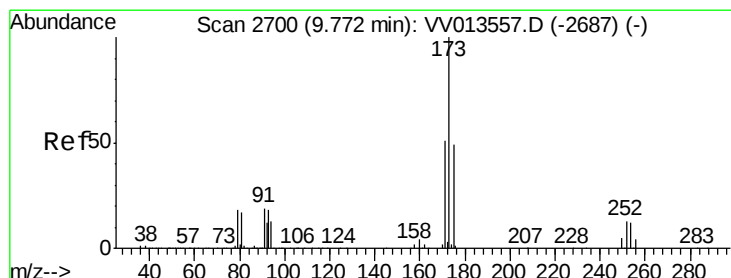
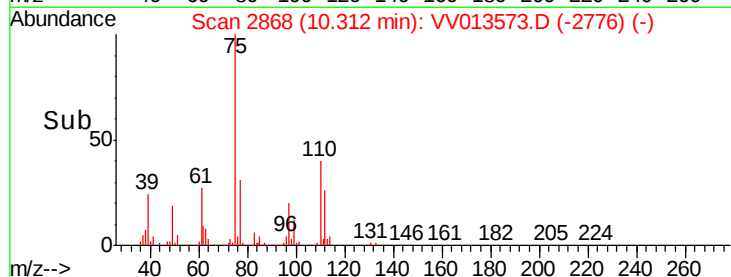
10000

0

10.30

10.40

Time-->



#61

Bromoform

Concen: 4.738 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

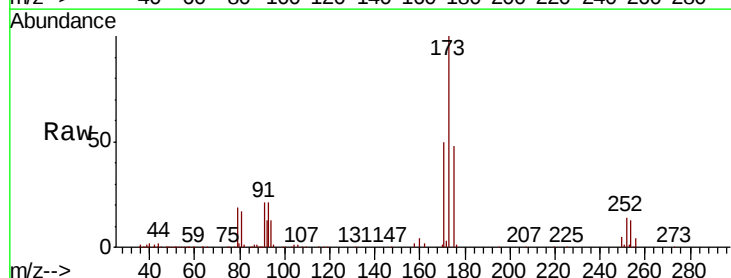
Tgt Ion: 173 Resp: 72036

Ion Ratio Lower Upper

173 100

175 49.3 38.8 58.2

254 13.4 11.2 16.8



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

60000

50000

40000

30000

20000

10000

0

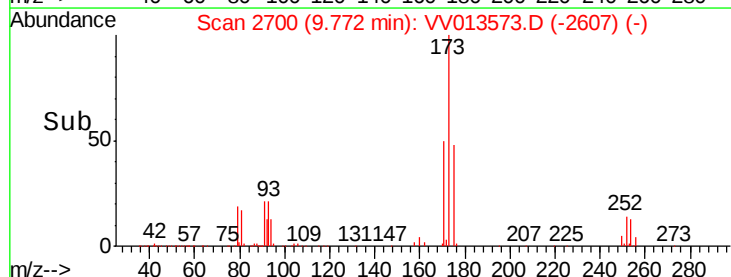
9.70

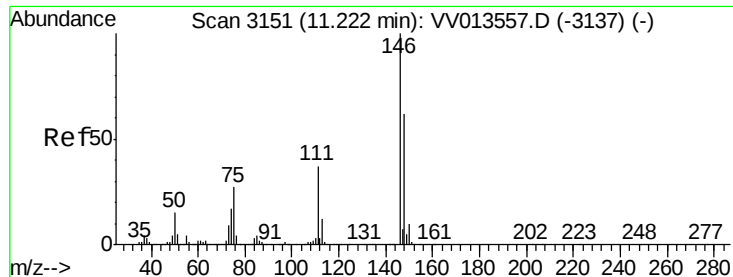
9.75

9.80

9.85

Time-->





#62

1,3-Dichlorobenzene

Concen: 4.853 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

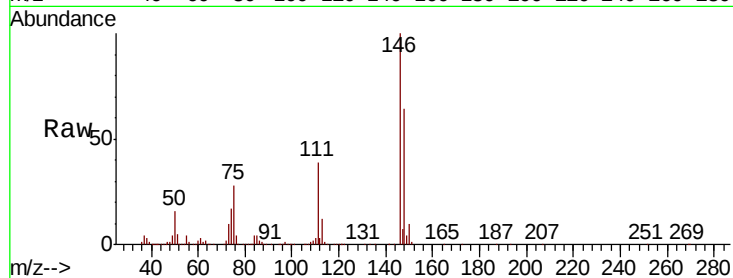
Tot Ion:146 Resp: 349242

Ion Ratio Lower Upper

146 100

111 38.8 26.2 48.6

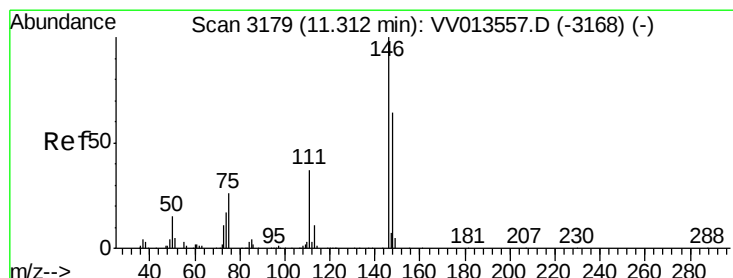
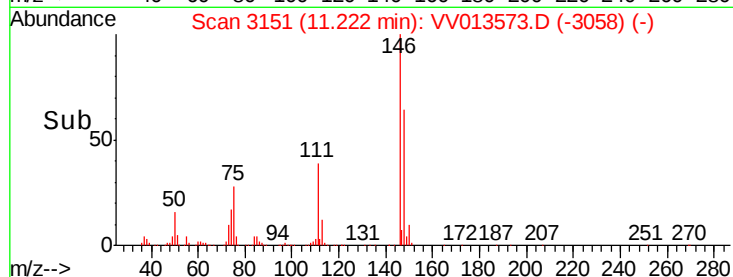
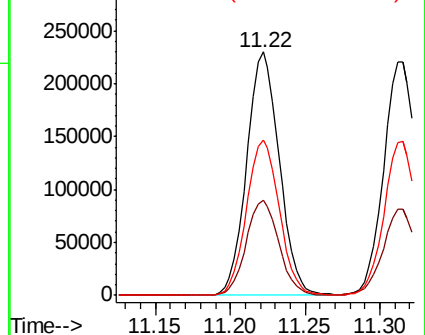
148 64.0 44.2 82.0



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: 4.810 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

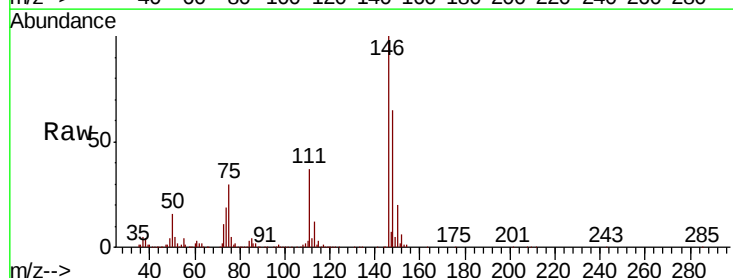
Tgt Ion:146 Resp: 345749

Ion Ratio Lower Upper

146 100

111 36.8 25.2 46.8

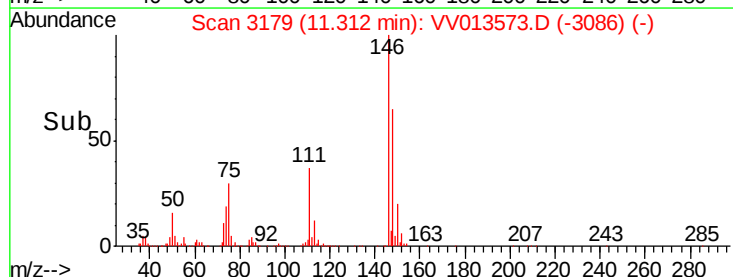
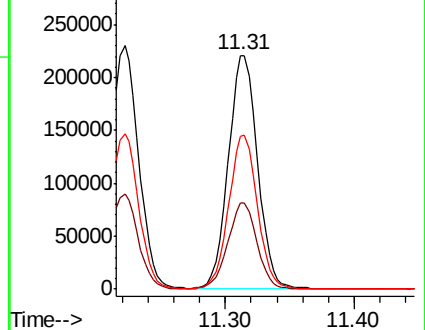
148 65.5 44.7 82.9

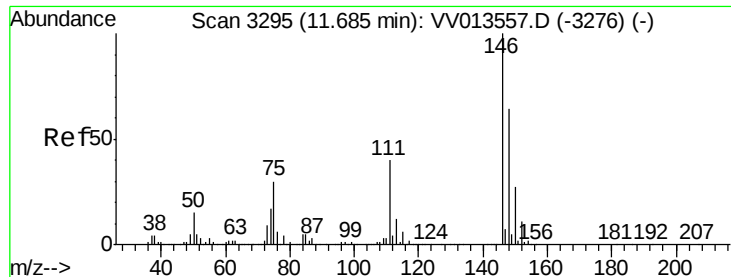


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

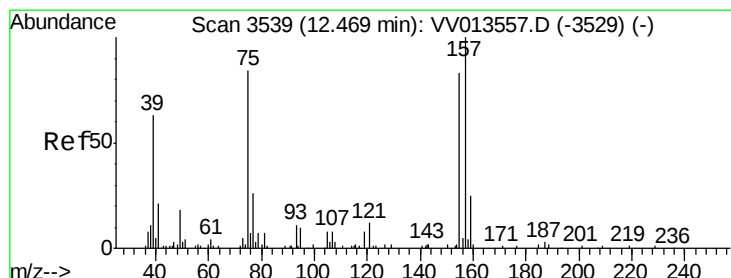
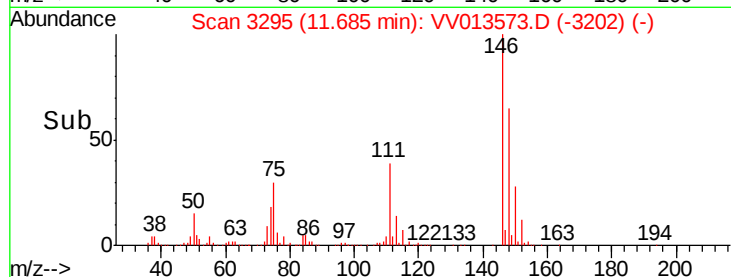
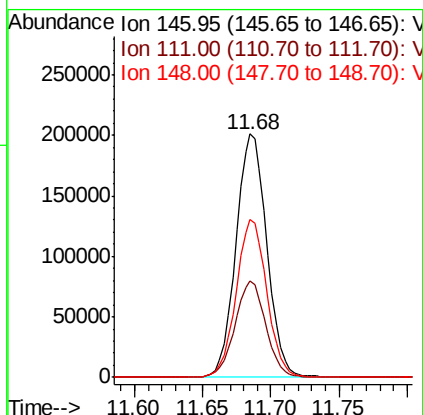
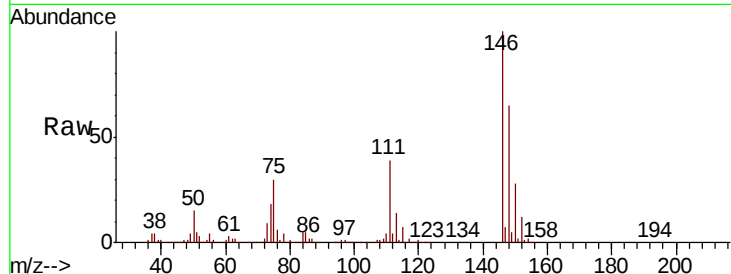




#65
 1,2-Dichlorobenzene
 Concen: 4.777 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

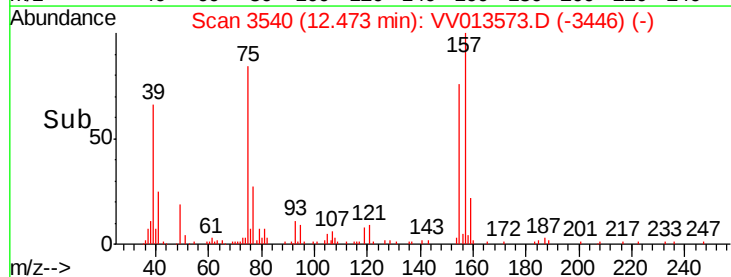
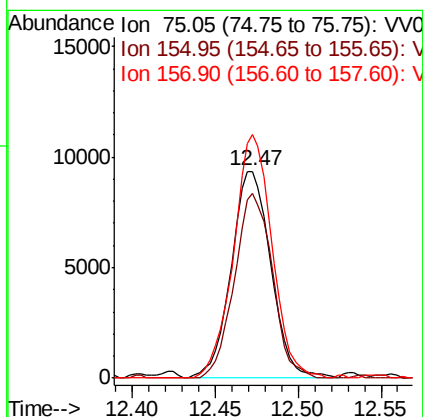
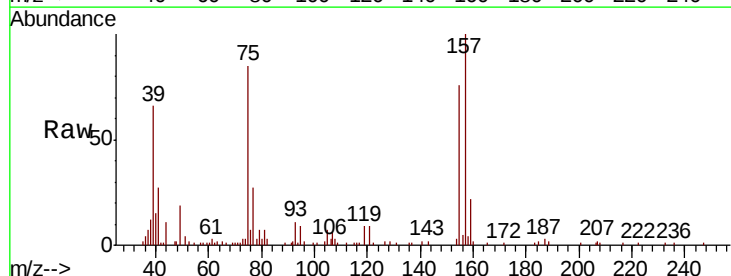
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

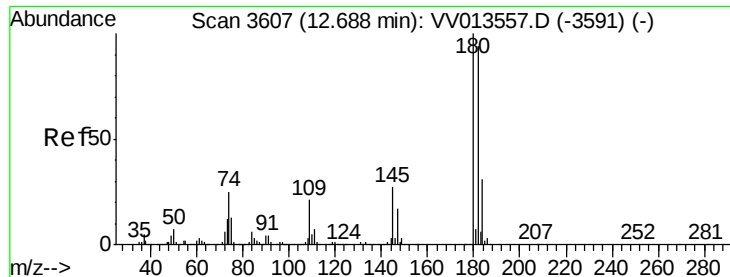
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	31.2	46.8
148	64.9	49.4	74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.645 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.9	75.0	112.6
157	117.6	92.2	138.4

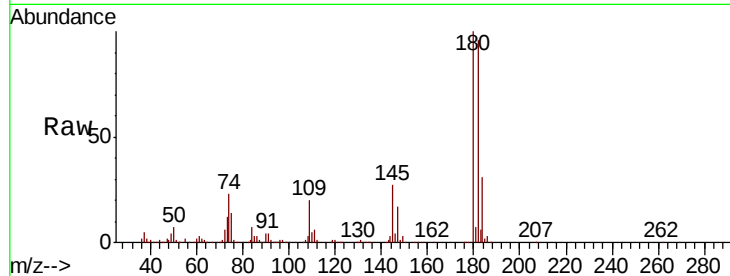




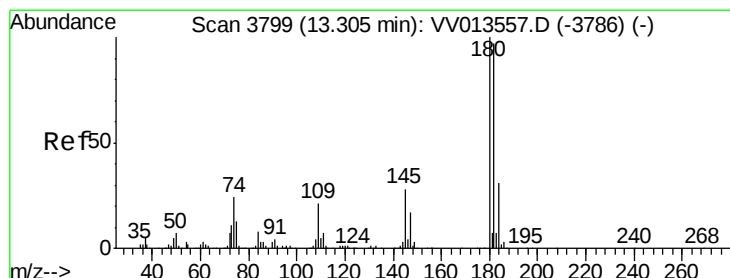
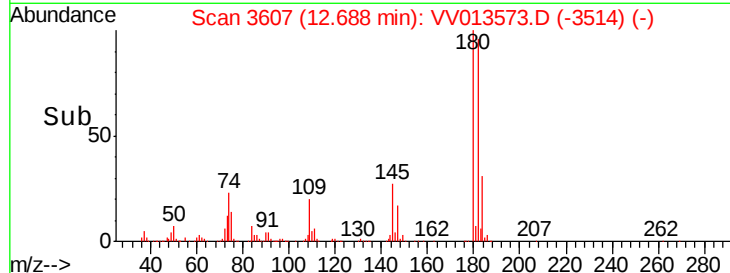
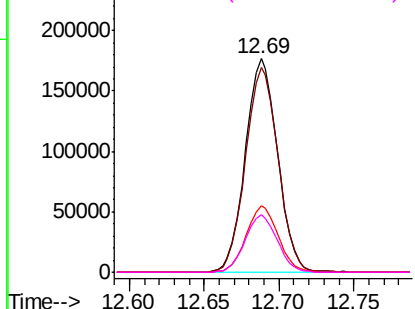
#67
 1,3,5-Trichlorobenzene
 Concen: 4.734 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

Tot Ion:180	Resp:	265803
Ion	Ratio	Lower Upper
180	100	
182	96.8	76.8 115.2
184	30.6	25.0 37.6
145	26.7	22.1 33.1

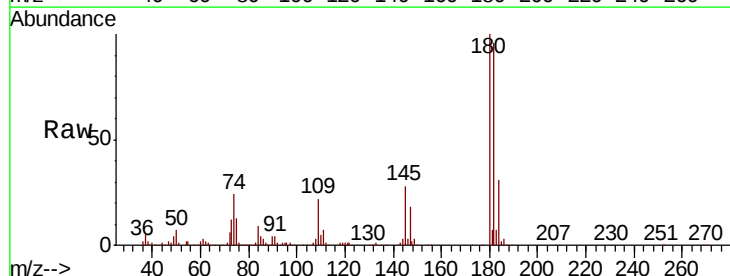


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

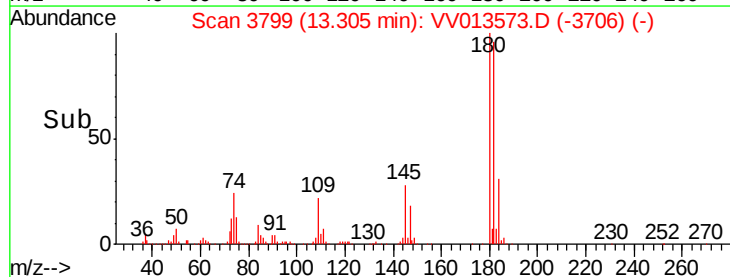
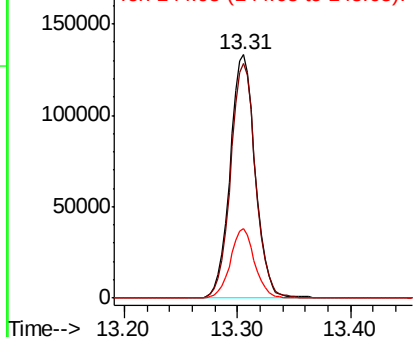


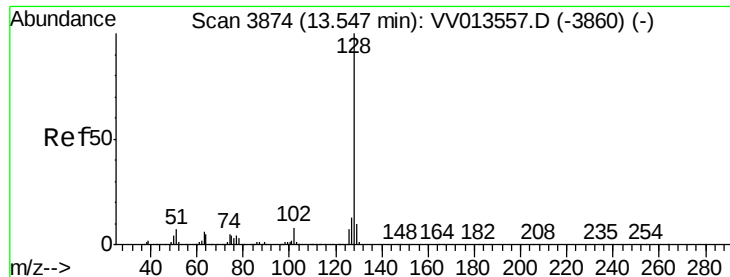
#68
 1,2,4-trichlorobenzene
 Concen: 4.589 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013573.D
 Acq: 09 Nov 2019 05:46

Tgt Ion:180	Resp:	205298
Ion	Ratio	Lower Upper
180	100	
182	95.6	76.6 115.0
145	27.6	22.2 33.4



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: 4.413 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

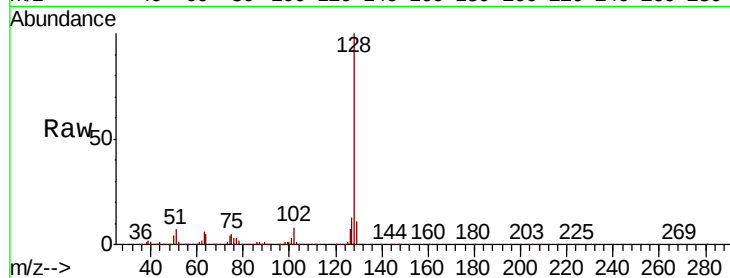
Tot Ion:128 Resp: 266616

Ion Ratio Lower Upper

128 100

129 11.0 8.5 12.7

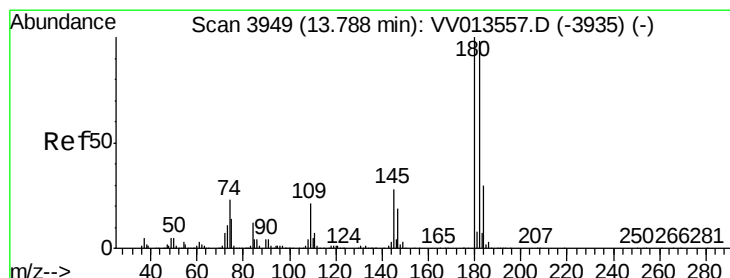
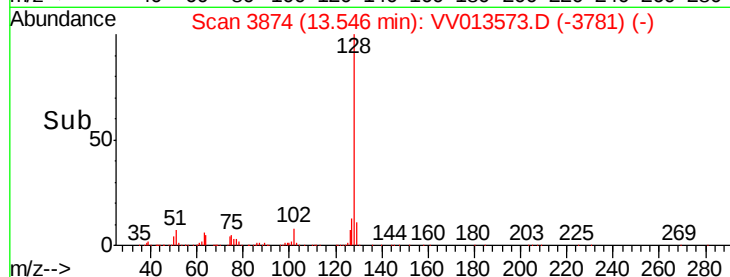
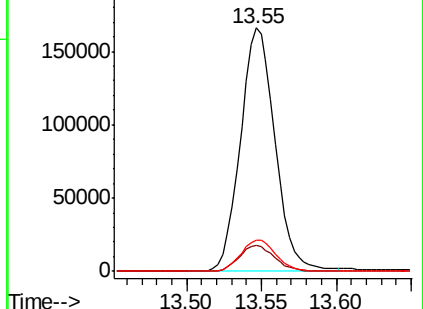
127 13.4 10.7 16.1



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: 4.642 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013573.D

Acq: 09 Nov 2019 05:46

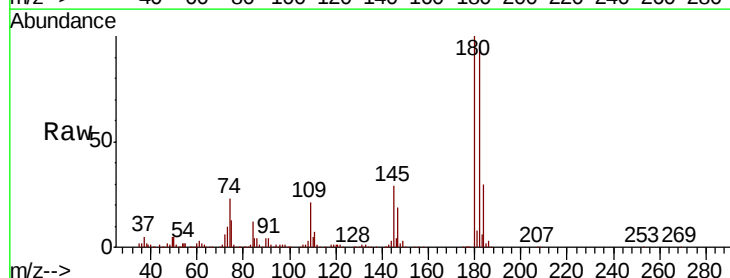
Tgt Ion:180 Resp: 194945

Ion Ratio Lower Upper

180 100

182 95.3 76.2 114.4

145 28.8 23.2 34.8



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

