

Data File : VV012429.D
Acq On : 27 Aug 2019 15:56
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

Quant Time: Aug 28 08:00:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Aug 28 07:35:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	240882	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	236385	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	116275	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	67417	5.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.00%
7) Chloroethane-d5	1.58	69	53792	6.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	121.00%
11) 1,1-Dichloroethene-d2	2.13	63	132694	6.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	124.00%
20) 2-Butanone-d5	3.96	46	171983	53.01	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.02%
24) Chloroform-d	4.40	84	138135	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.80%
26) 1,2-Dichloroethane-d4	5.08	65	66250	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
32) Benzene-d6	5.10	84	263551	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
36) 1,2-Dichloropropane-d6	6.12	67	81489	4.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.60%
41) Toluene-d8	7.36	98	242435	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
43) trans-1,3-Dichloropropene-	7.66	79	28561	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	8.14	63	100583	49.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.10%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	55323	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	83348	4.30	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	97554	4.742	ug/L 99
3) Chloromethane	1.25	50	104628	6.612	ug/L 98
5) Vinyl chloride	1.32	62	105100	6.849	ug/L 98
6) Bromomethane	1.54	94	46305	6.612	ug/L 94
8) Chloroethane	1.60	64	54884	7.125	ug/L 97
9) Trichlorofluoromethane	1.77	101	130651	6.397	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	69569	6.540	ug/L 90
12) 1,1-Dichloroethene	2.14	96	63465	6.568	ug/L 94
13) Acetone	2.22	43	107977	76.926	ug/L 95
14) Carbon disulfide	2.32	76	198501	6.538	ug/L 100
15) Methyl Acetate	2.47	43	27410	7.758	ug/L 95
16) Methylene chloride	2.53	84	69309	6.437	ug/L 90
17) Methyl tert-butyl Ether	2.81	73	153015	5.255	ug/L 98
18) trans-1,2-Dichloroethene	2.79	96	74761	5.203	ug/L 98
19) 1,1-Dichloroethane	3.23	63	142861	5.347	ug/L 98
21) 2-Butanone	4.04	43	177326	53.787	ug/L 97
22) cis-1,2-Dichloroethene	3.96	96	75171	4.796	ug/L 99

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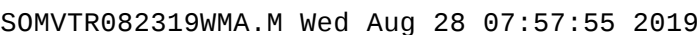
Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

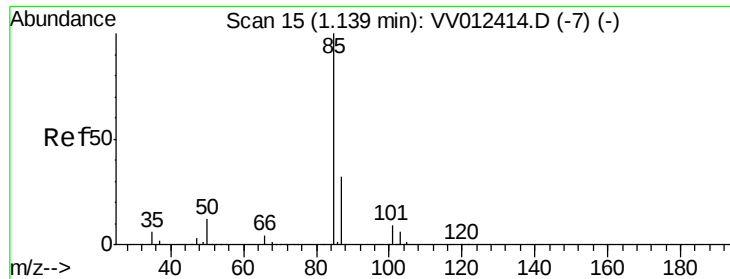
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	33217	5.097	ug/L	96
25) Chloroform	4.42	83	145416	4.878	ug/L	97
27) 1,2-Dichloroethane	5.18	62	83541	5.311	ug/L	98
29) 1,1,1-Trichloroethane	4.66	97	118859	5.033	ug/L	98
30) Cyclohexane	4.72	56	113585	4.656	ug/L	99
31) Carbon tetrachloride	4.87	117	102992	4.931	ug/L	100
33) Benzene	5.14	78	306897	5.092	ug/L	100
34) Trichloroethene	5.96	95	78931	4.852	ug/L	99
35) Methylcyclohexane	6.17	83	115902	4.536	ug/L	98
37) 1,2-Dichloropropane	6.22	63	73593	4.818	ug/L	100
38) Bromodichloromethane	6.55	83	95364	5.061	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	96039	4.677	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	433106	52.786	ug/L	97
42) Toluene	7.43	91	320205	5.201	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	76702	4.938	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	52080	5.263	ug/L	99
47) Tetrachloroethene	8.02	164	66642	5.077	ug/L	98
48) 2-Hexanone	8.19	43	318514	53.952	ug/L	98
49) Dibromochloromethane	8.29	129	59321	5.003	ug/L	97
50) 1,2-Dibromoethane	8.40	107	46423	4.962	ug/L	94
51) Chlorobenzene	8.92	112	196762	4.891	ug/L	99
52) Ethylbenzene	9.05	91	319763	4.825	ug/L	99
53) m,p-xylene	9.18	106	121828	4.903	ug/L	98
54) o-xylene	9.59	106	116302	4.919	ug/L	98
55) Styrene	9.60	104	201442	5.093	ug/L	96
56) Isopropylbenzene	9.97	105	308084	4.869	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	51679	4.865	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	42394	5.053	ug/L	99
61) Bromoform	9.77	173	30555	4.581	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	151546	4.799	ug/L	100
63) 1,4-Dichlorobenzene	11.31	146	149821	4.737	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	139957	4.820	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	7328	4.402	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	106954	4.424	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	72312	4.291	ug/L	98
69) Naphthalene	13.55	128	84525	3.624	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	68591	4.346	ug/L	97

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

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#2

Dichlorodifluoromethane

Concen: 4.742 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

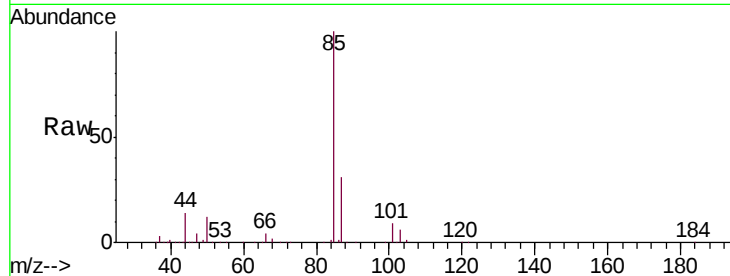
VSTD00554

Tgt Ion: 85 Resp: 97554

Ion Ratio Lower Upper

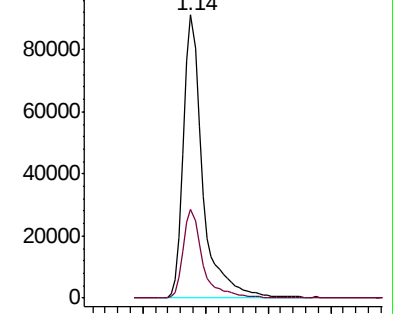
85 100

87 31.8 25.8 38.8

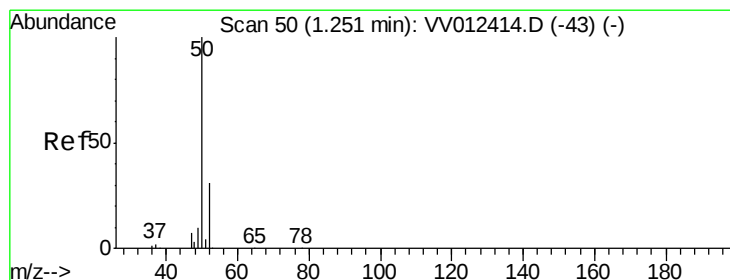
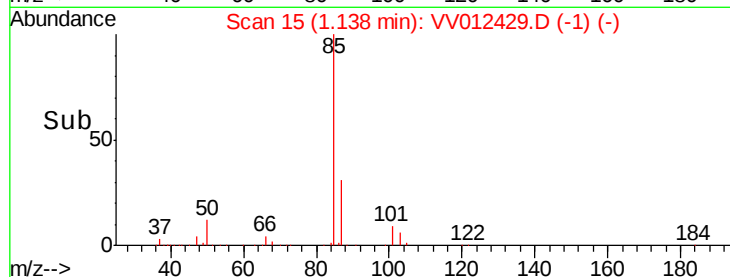


Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



Time-->



#3

Chloromethane

Concen: 6.612 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012429.D

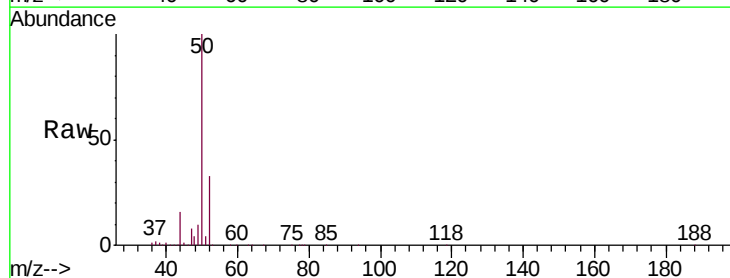
Acq: 27 Aug 2019 15:56

Tgt Ion: 50 Resp: 104628

Ion Ratio Lower Upper

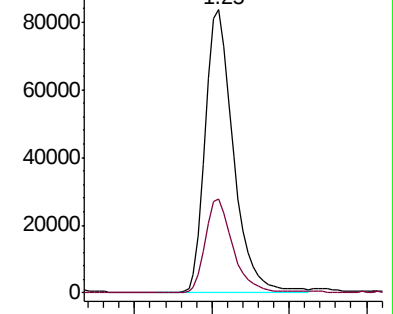
50 100

52 33.1 22.2 41.2

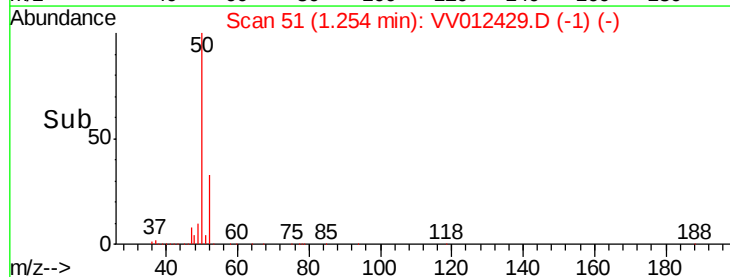


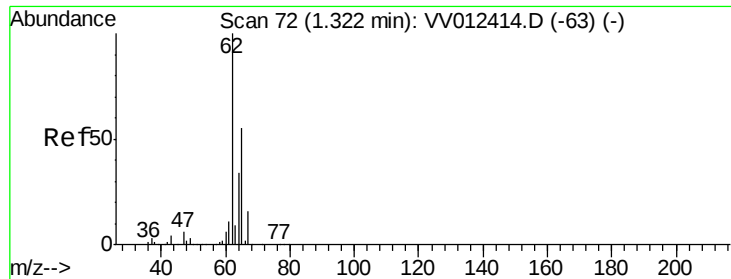
Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



Time-->





#5

Vinyl chloride

Concen: 6.849 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

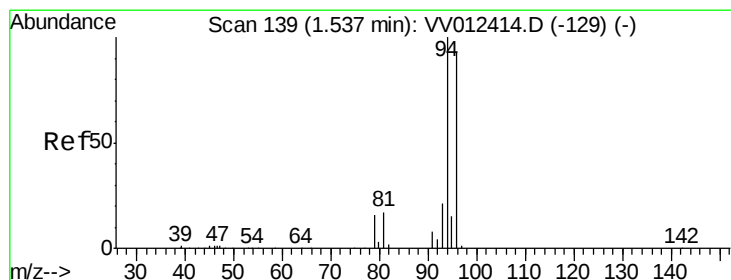
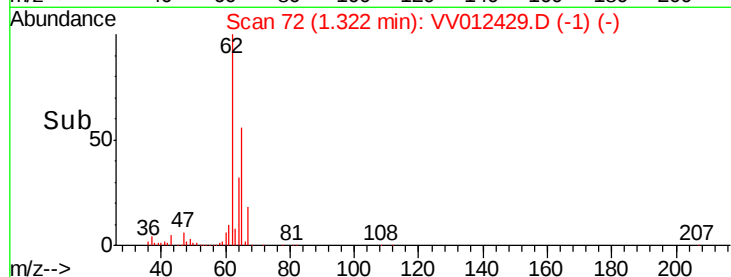
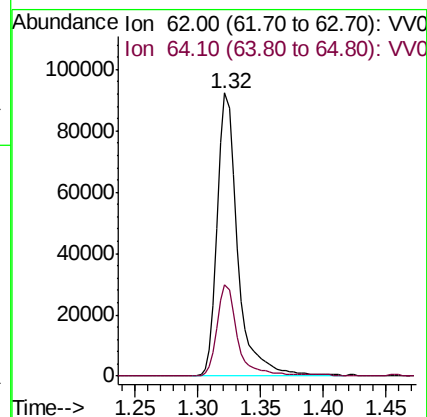
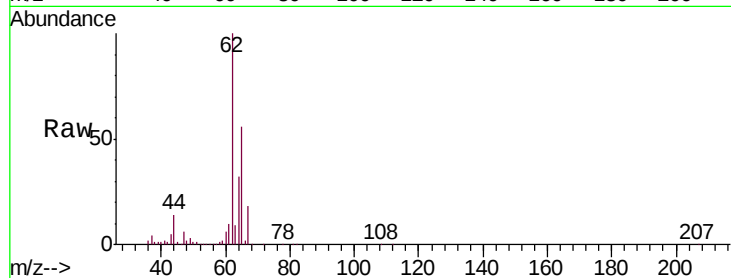
VSTD00554

Tgt Ion: 62 Resp: 105100

Ion Ratio Lower Upper

62 100

64 32.3 23.2 43.2



#6

Bromomethane

Concen: 6.612 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV012429.D

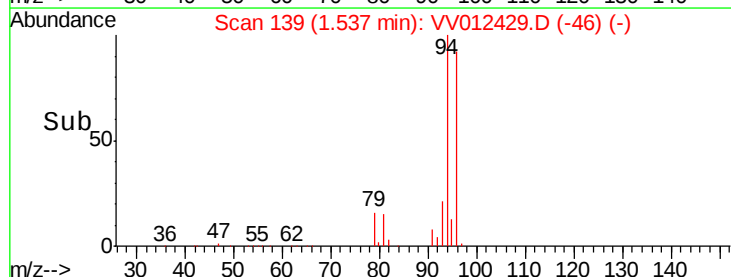
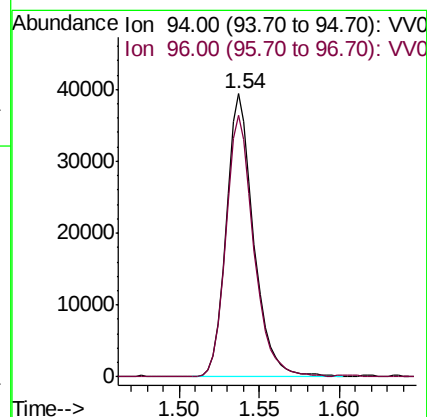
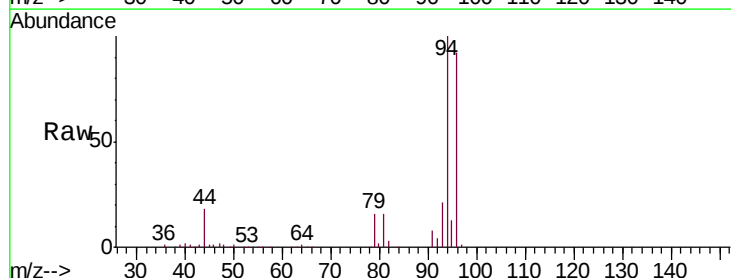
Acq: 27 Aug 2019 15:56

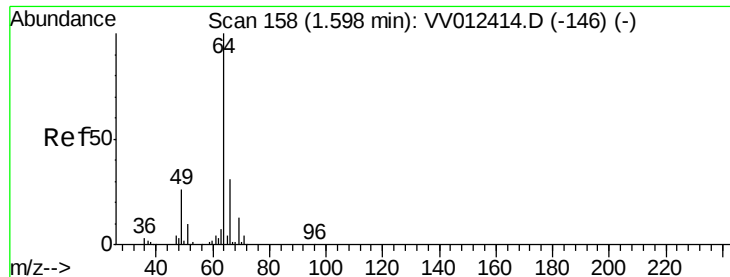
Tgt Ion: 94 Resp: 46305

Ion Ratio Lower Upper

94 100

96 92.5 69.2 128.6





#8

Chloroethane

Concen: 7.125 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

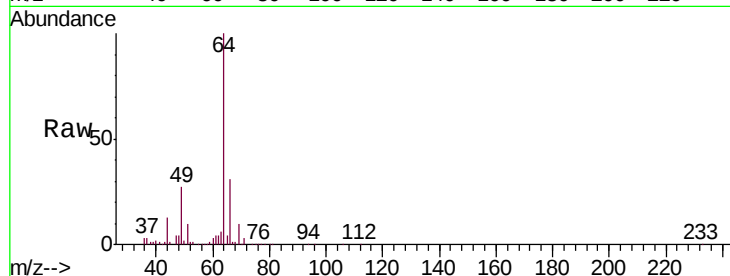
VSTD00554

Tgt Ion: 64 Resp: 54884

Ion Ratio Lower Upper

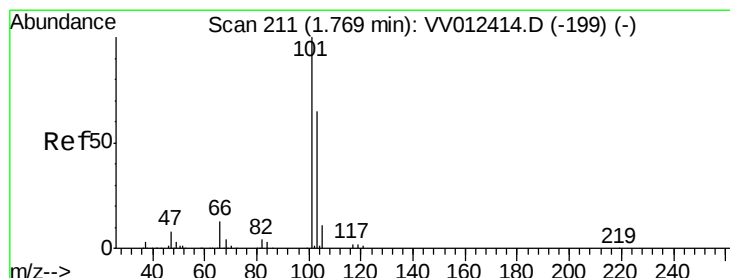
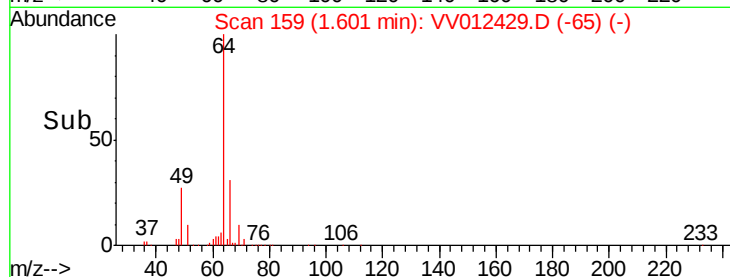
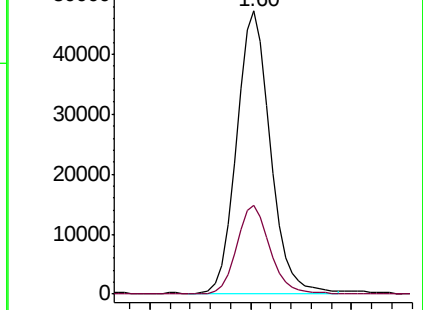
64 100

66 31.4 23.2 43.0



Abundance Ion 64.10 (63.80 to 64.80): VV012414.D (-146) (-)

Ion 66.05 (65.75 to 66.75): VV012414.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 6.397 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012429.D

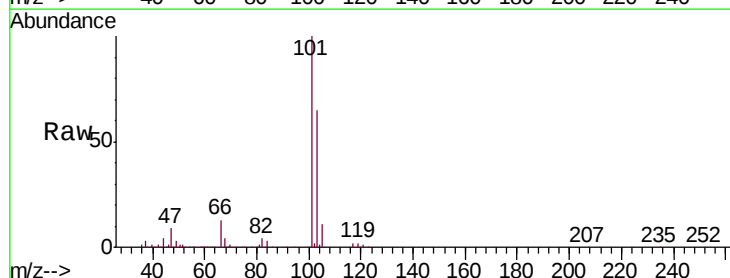
Acq: 27 Aug 2019 15:56

Tgt Ion: 101 Resp: 130651

Ion Ratio Lower Upper

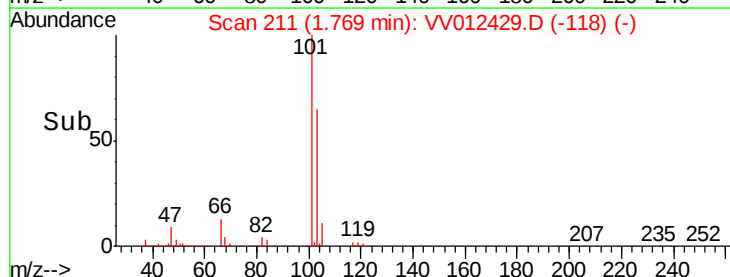
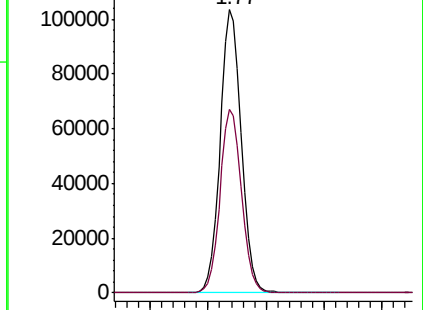
101 100

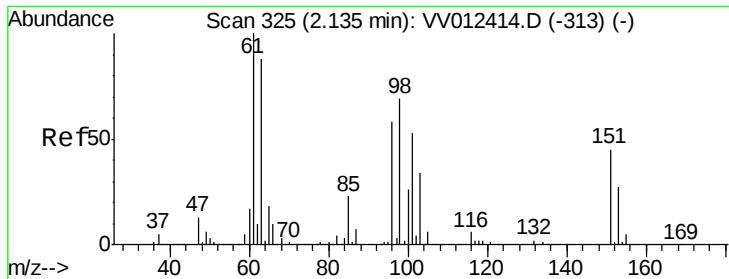
103 66.0 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VV012414.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV012414.D (-199) (-)





#10

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

Concen: 6.540 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

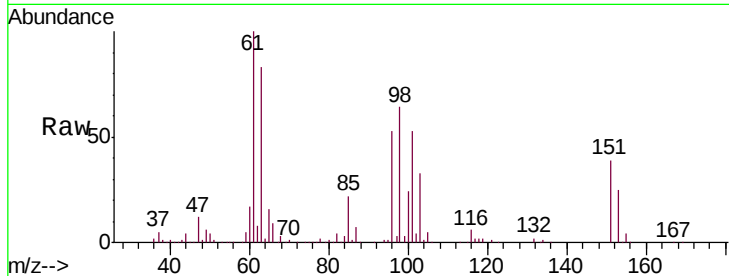
Tgt Ion: 101 Resp: 69569

Ion Ratio Lower Upper

101 100

85 44.0 34.6 51.8

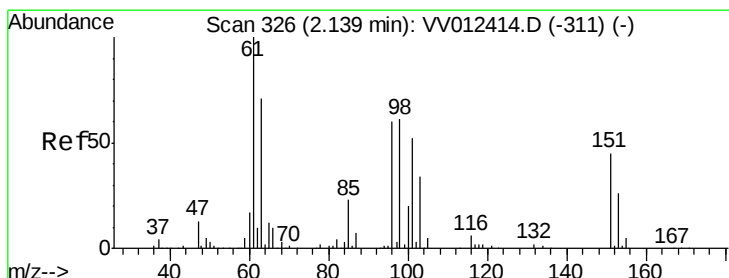
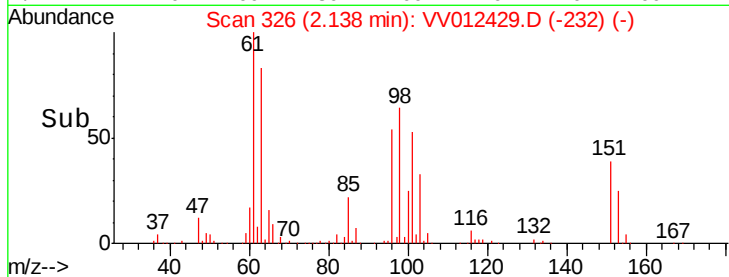
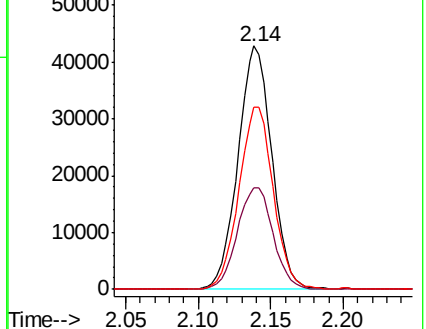
151 76.1 71.2 106.8



Abundance Ion 101.00 (100.70 to 101.70): VV012429.D (-232) (-)

Ion 85.00 (84.70 to 85.70): VV012429.D (-232) (-)

Ion 151.00 (150.70 to 151.70): VV012429.D (-232) (-)



#12

1,1-Dichloroethene

Concen: 6.568 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

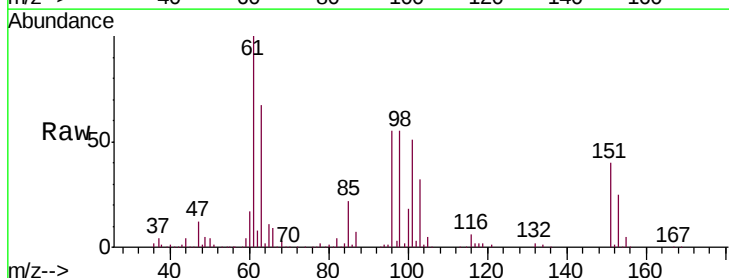
Tgt Ion: 96 Resp: 63465

Ion Ratio Lower Upper

96 100

61 182.6 122.3 227.1

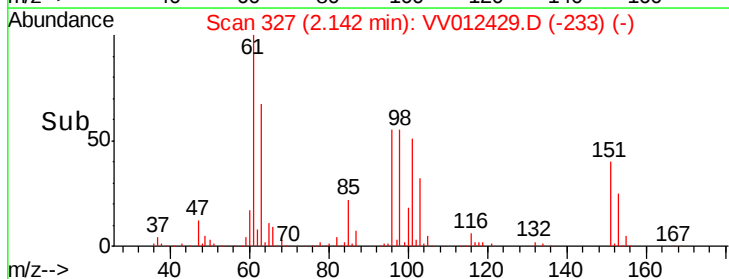
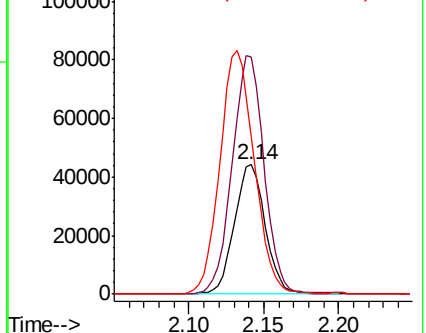
63 121.8 90.6 168.2

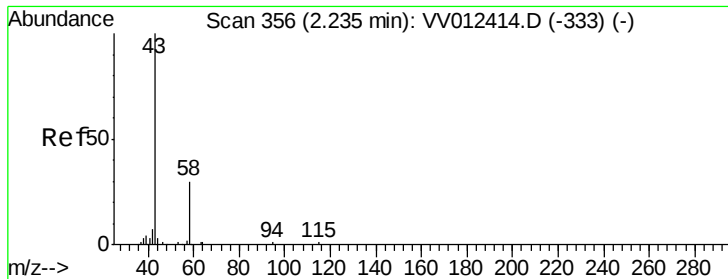


Abundance Ion 96.00 (95.70 to 96.70): VV012429.D (-233) (-)

Ion 61.05 (60.75 to 61.75): VV012429.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV012429.D (-233) (-)





#13

Acetone

Concen: 76.926 ug/L

RT: 2.22 min Scan# 351

Delta R.T. -0.02 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

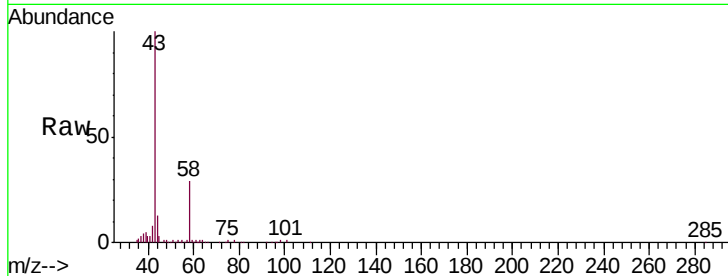
VSTD00554

Tgt Ion: 43 Resp: 107977

Ion Ratio Lower Upper

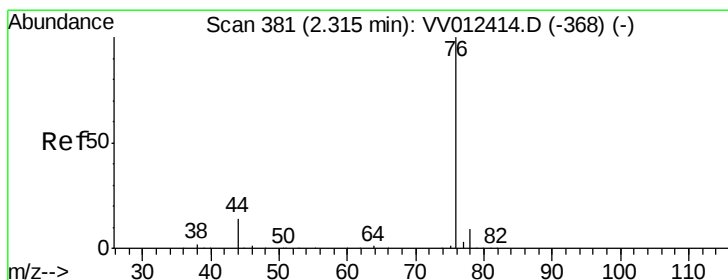
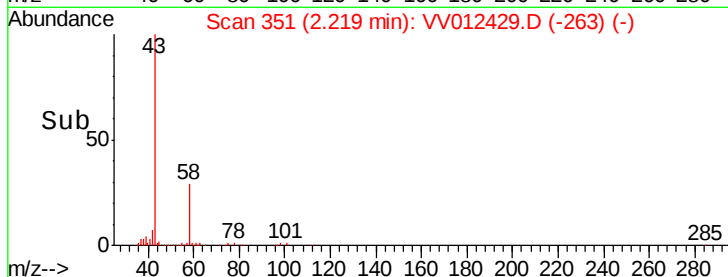
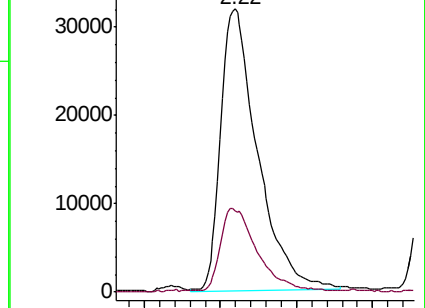
43 100

58 28.7 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VV012414.D (-333) (-)

Ion 58.05 (57.75 to 58.75): VV012414.D (-333) (-)



#14

Carbon disulfide

Concen: 6.538 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012429.D

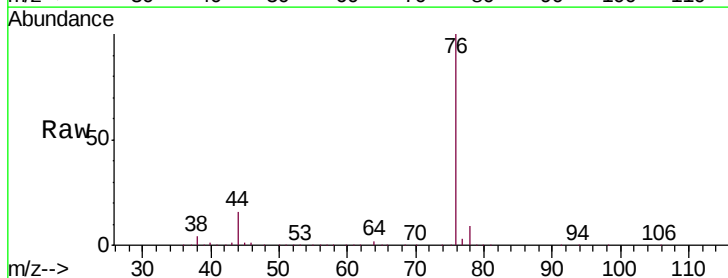
Acq: 27 Aug 2019 15:56

Tgt Ion: 76 Resp: 198501

Ion Ratio Lower Upper

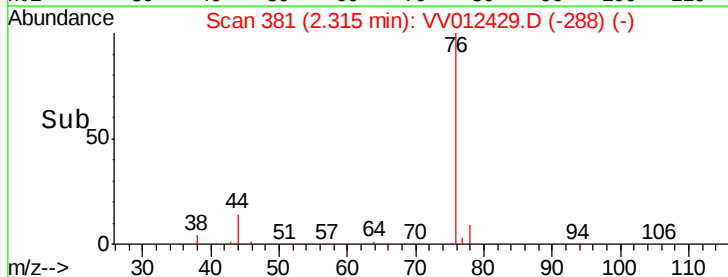
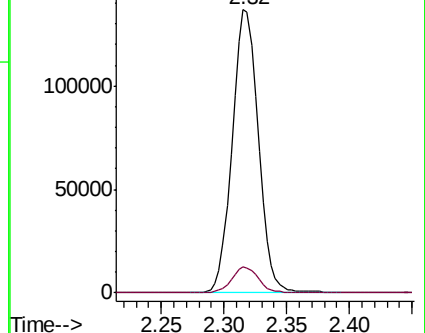
76 100

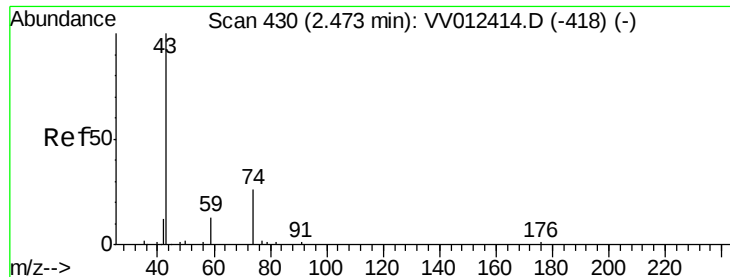
78 9.2 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV012414.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV012414.D (-368) (-)

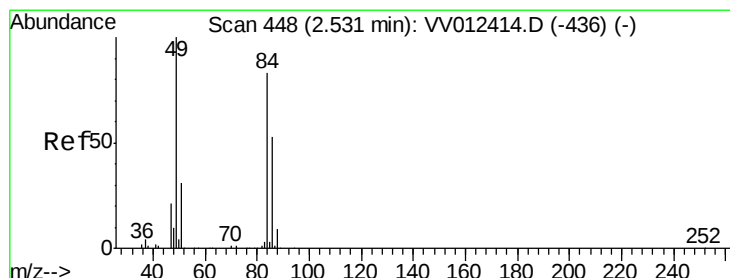
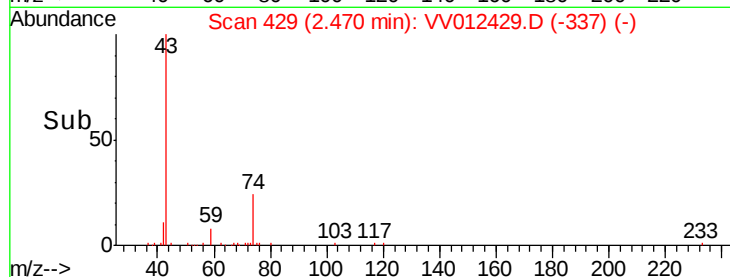
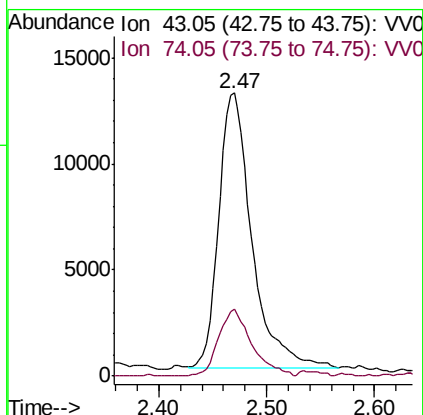
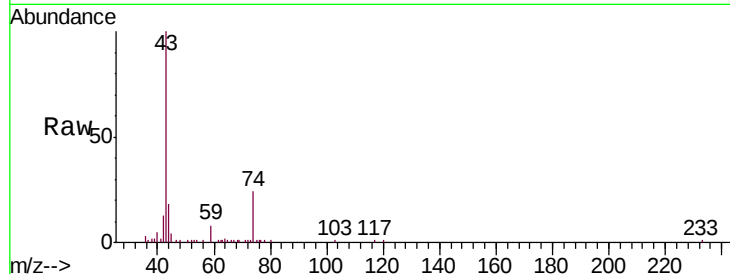




#15
Methyl Acetate
Concen: 7.758 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV012429.D
Acq: 27 Aug 2019 15:56

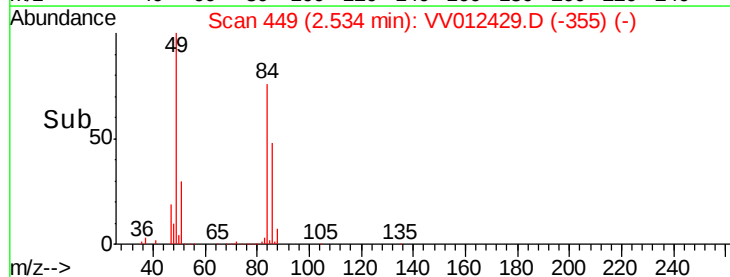
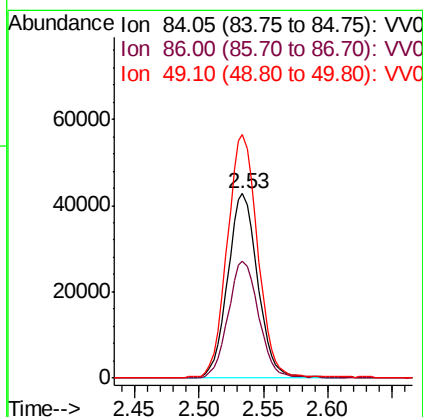
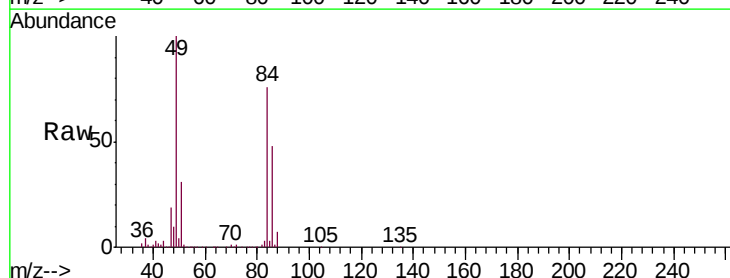
Instrument :
MSVOA_V
ClientSampled :
VSTD00554

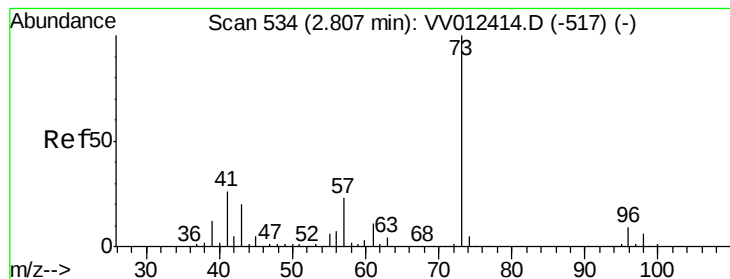
Tgt Ion: 43 Resp: 27410
Ion Ratio Lower Upper
43 100
74 24.6 21.8 32.6



#16
Methylene chloride
Concen: 6.437 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012429.D
Acq: 27 Aug 2019 15:56

Tgt Ion: 84 Resp: 69309
Ion Ratio Lower Upper
84 100
86 63.5 44.9 83.5
49 132.0 81.1 150.7





#17

Methyl tert-butyl Ether

Concen: 5.255 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

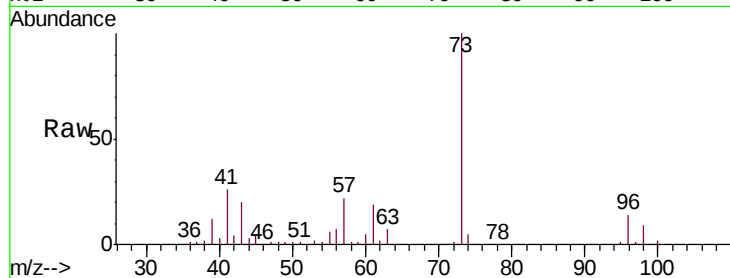
Tgt Ion: 73 Resp: 153015

Ion Ratio Lower Upper

73 100

43 21.0 15.0 22.6

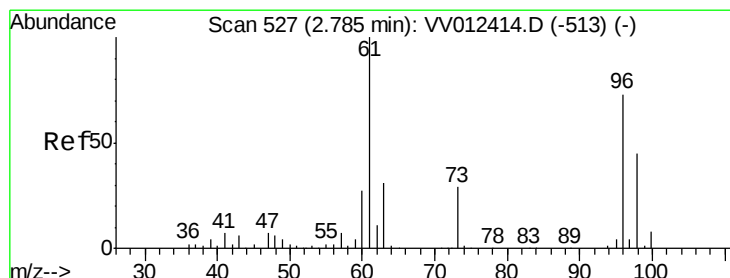
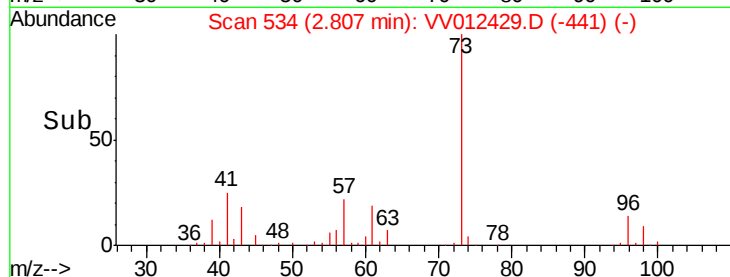
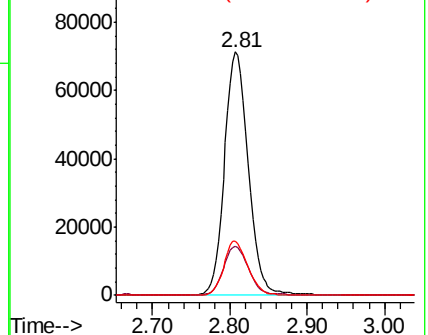
57 22.6 18.0 27.0



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: 5.203 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

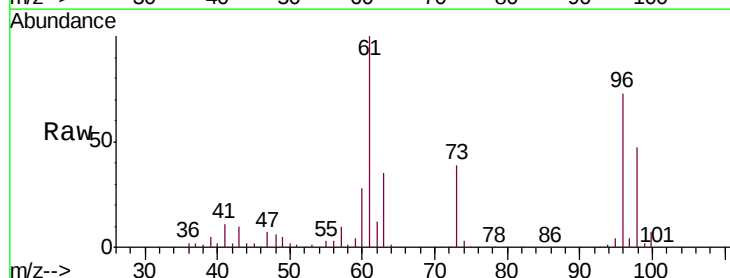
Tgt Ion: 96 Resp: 74761

Ion Ratio Lower Upper

96 100

61 136.4 96.0 178.4

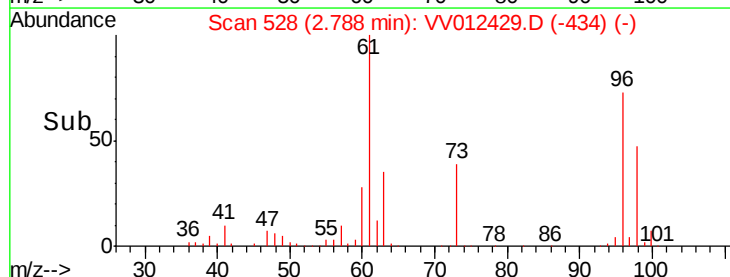
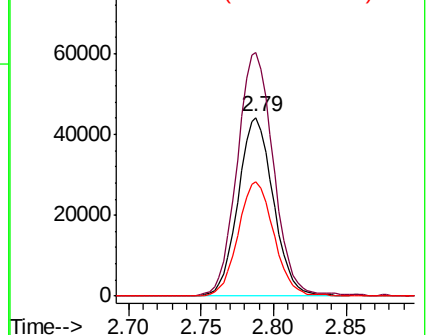
98 64.4 42.1 78.3

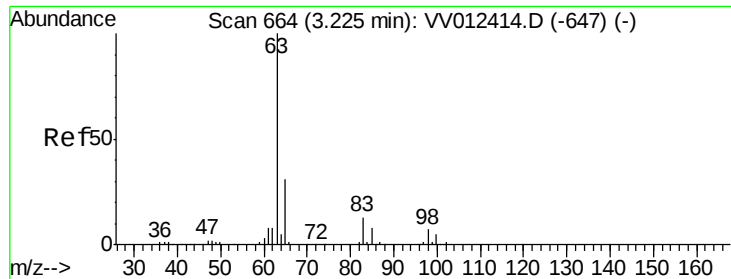


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 5.347 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

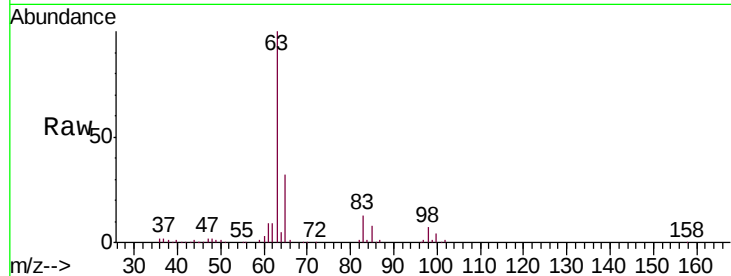
Tgt Ion: 63 Resp: 142861

Ion Ratio Lower Upper

63 100

65 31.8 23.1 42.9

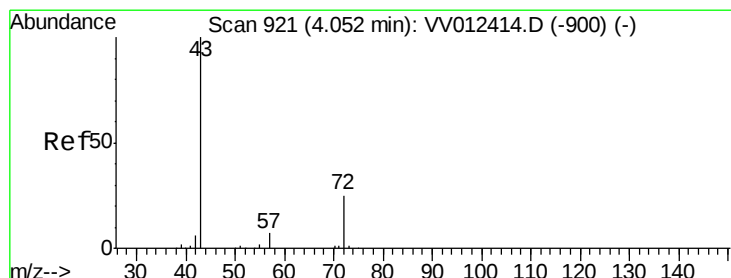
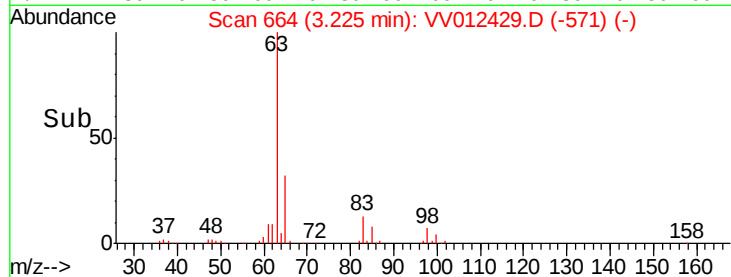
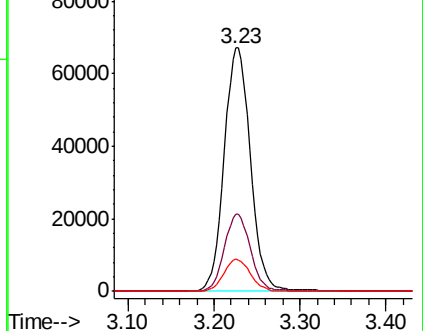
83 13.2 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VV012414.D (-647) (-)

Ion 65.10 (64.80 to 65.80): VV012414.D (-647) (-)

Ion 83.05 (82.75 to 83.75): VV012414.D (-647) (-)



#21

2-Butanone

Concen: 53.787 ug/L

RT: 4.04 min Scan# 918

Delta R.T. -0.01 min

Lab File: VV012429.D

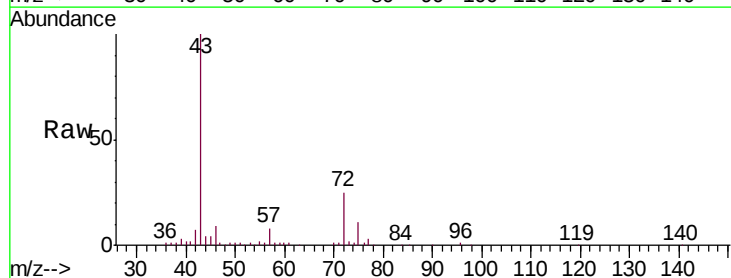
Acq: 27 Aug 2019 15:56

Tgt Ion: 43 Resp: 177326

Ion Ratio Lower Upper

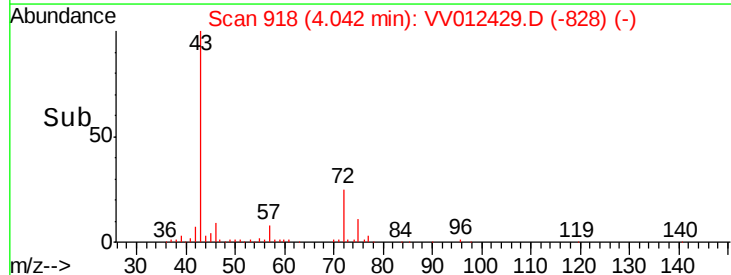
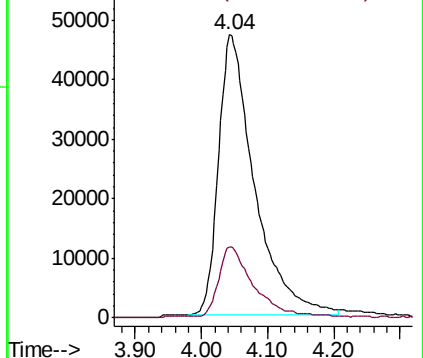
43 100

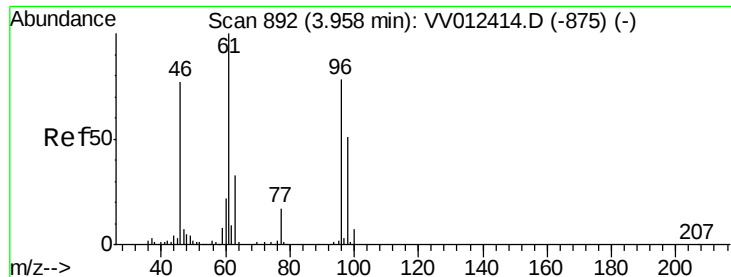
72 22.8 12.2 36.6



Abundance Ion 43.05 (42.75 to 43.75): VV012414.D (-900) (-)

Ion 72.10 (71.80 to 72.80): VV012414.D (-900) (-)



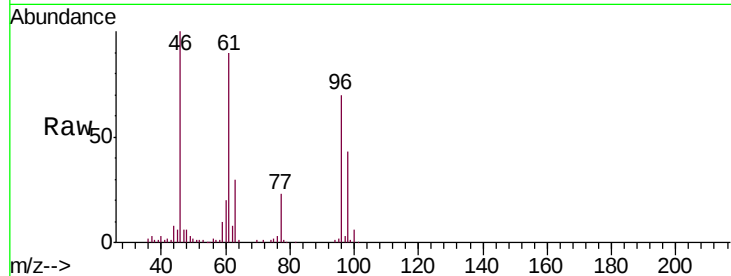


#22

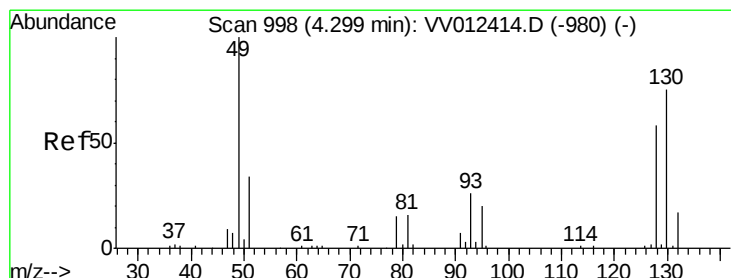
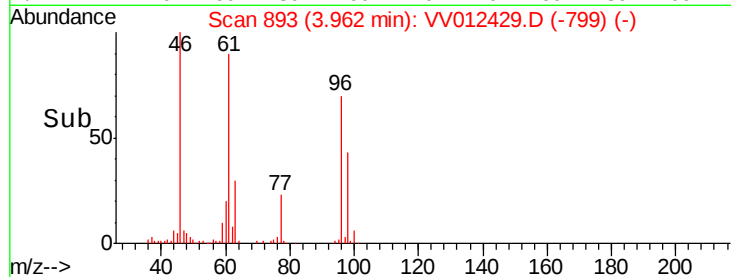
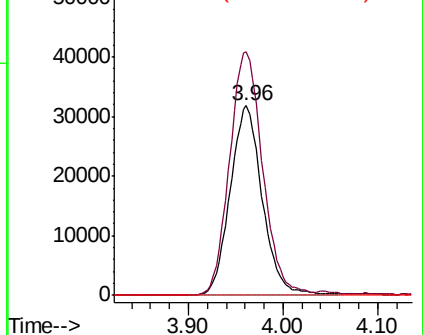
cis-1,2-Dichloroethene
 Concen: 4.796 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV012429.D
 Acq: 27 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00554

Tgt Ion: 96 Resp: 75171
 Ion Ratio Lower Upper
 96 100
 61 128.7 89.4 166.0
 68 0.0 0.0 0.0



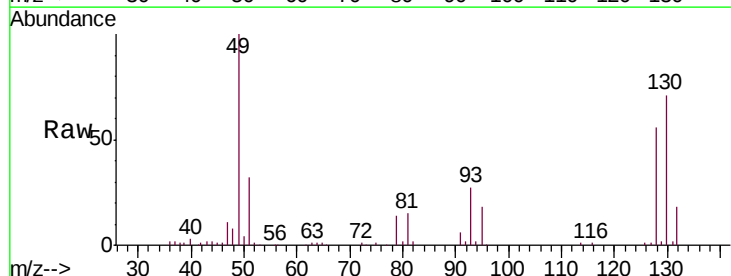
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



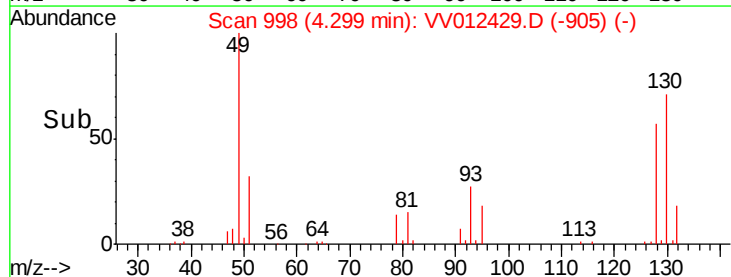
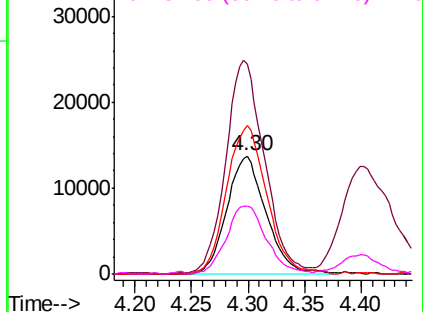
#23

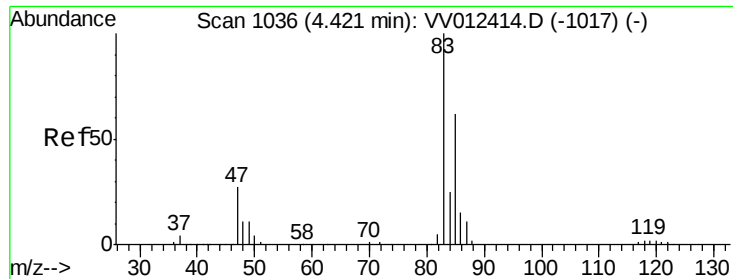
Bromochloromethane
 Concen: 5.097 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV012429.D
 Acq: 27 Aug 2019 15:56

Tgt Ion: 128 Resp: 33217
 Ion Ratio Lower Upper
 128 100
 49 177.7 120.7 224.1
 130 125.8 91.5 169.9
 51 57.2 44.3 66.5



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

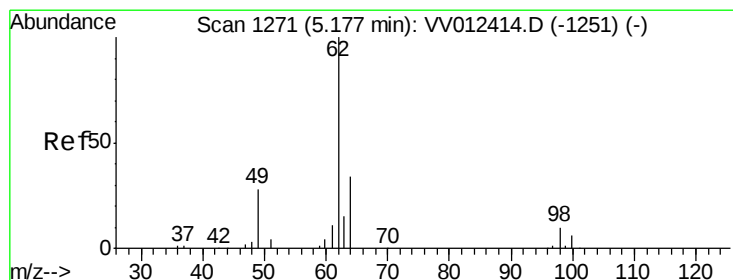
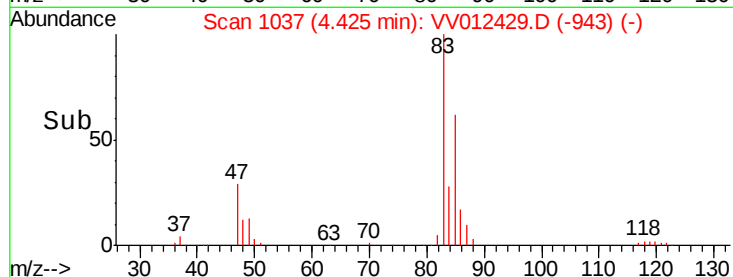
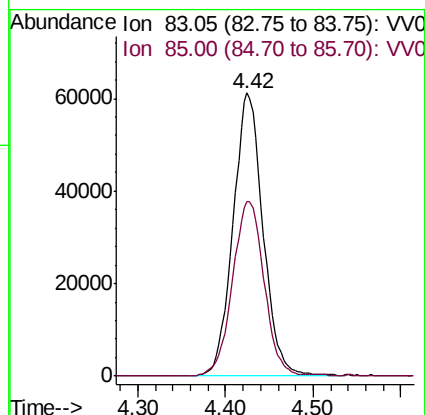
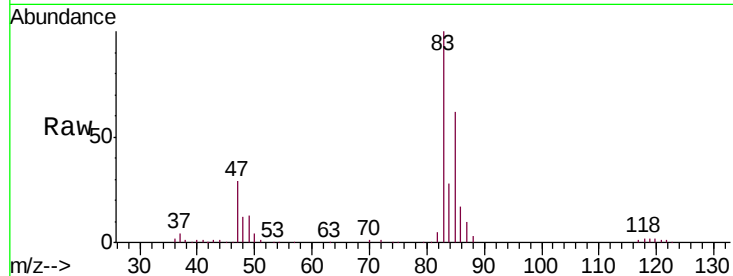




#25
Chloroform
Concen: 4.878 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012429.D
Acq: 27 Aug 2019 15:56

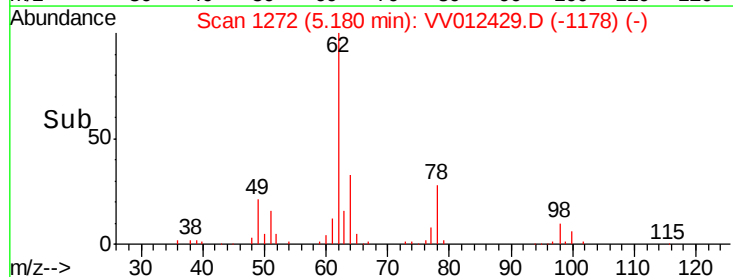
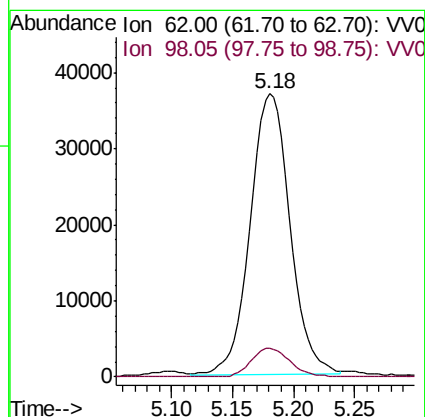
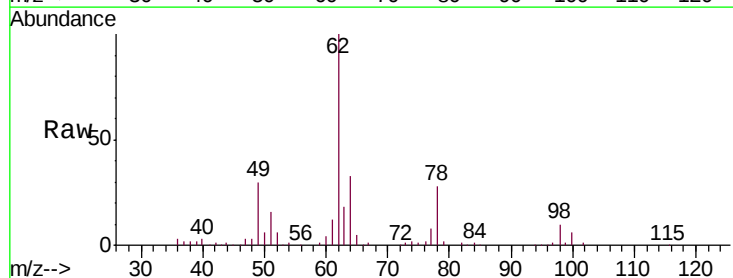
Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

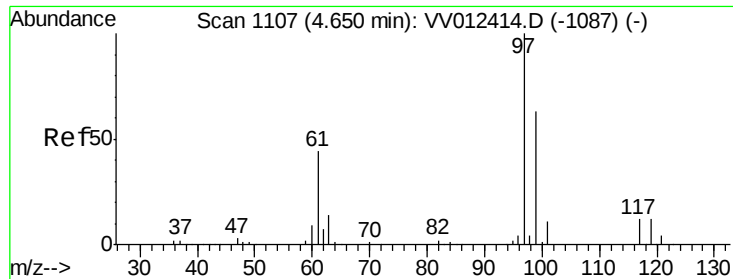
Tgt Ion: 83 Resp: 145416
Ion Ratio Lower Upper
83 100
85 61.7 44.6 82.8



#27
1,2-Dichloroethane
Concen: 5.311 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012429.D
Acq: 27 Aug 2019 15:56

Tgt Ion: 62 Resp: 83541
Ion Ratio Lower Upper
62 100
98 10.1 7.6 11.4

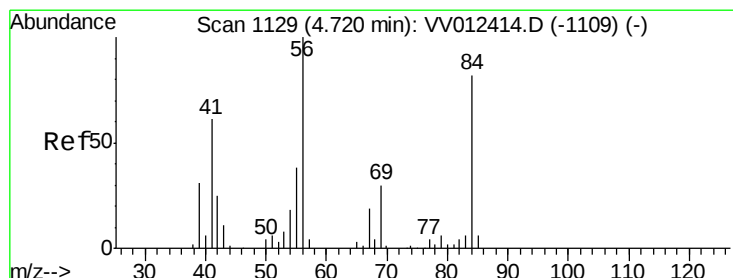
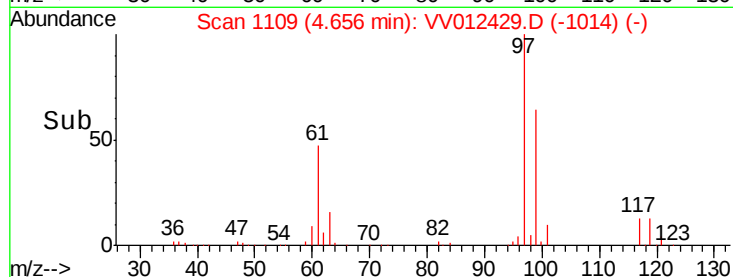
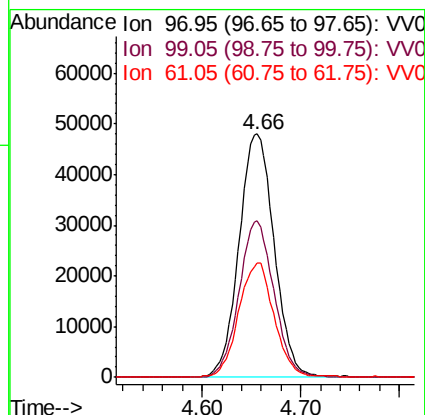
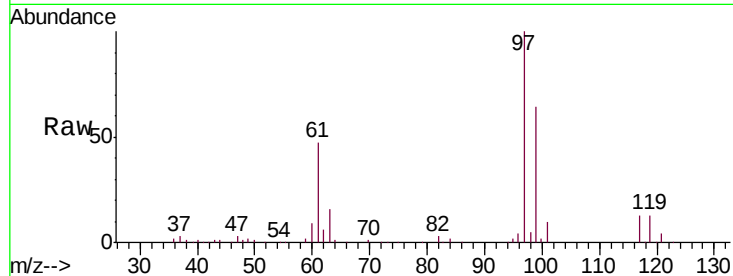




#29
 1,1,1-Trichloroethane
 Concen: 5.033 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VV012429.D
 Acq: 27 Aug 2019 15:56

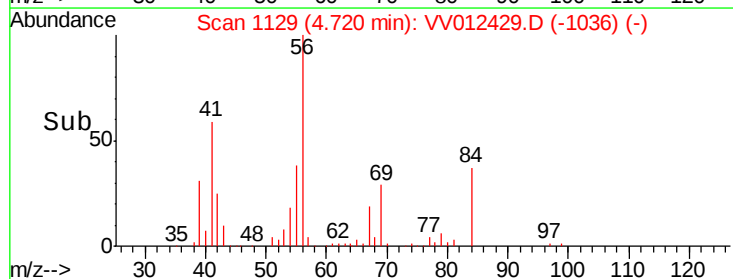
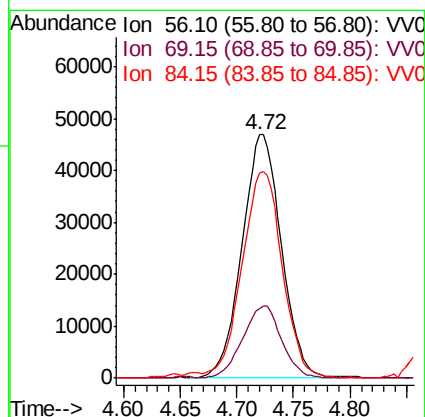
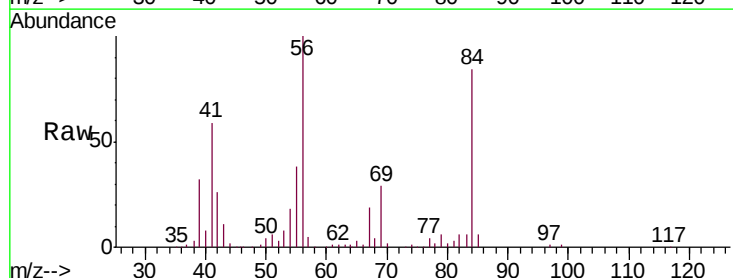
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

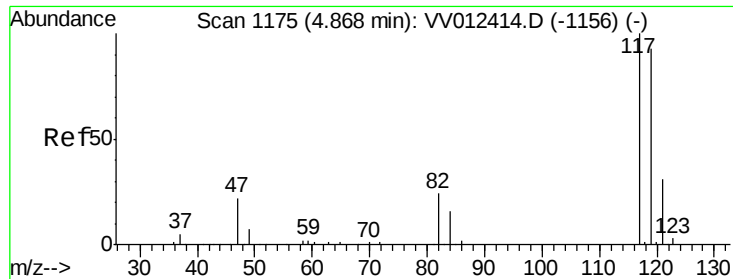
Tgt Ion: 97 Resp: 118859
 Ion Ratio Lower Upper
 97 100
 99 63.6 50.5 75.7
 61 47.3 35.4 53.2



#30
 Cyclohexane
 Concen: 4.656 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. -0.00 min
 Lab File: VV012429.D
 Acq: 27 Aug 2019 15:56

Tgt Ion: 56 Resp: 113585
 Ion Ratio Lower Upper
 56 100
 69 29.3 24.0 36.0
 84 85.7 67.9 101.9





#31

Carbon tetrachloride

Concen: 4.931 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

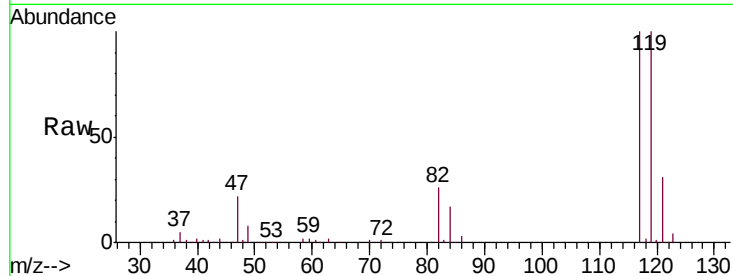
VSTD00554

Tgt Ion:117 Resp: 102992

Ion Ratio Lower Upper

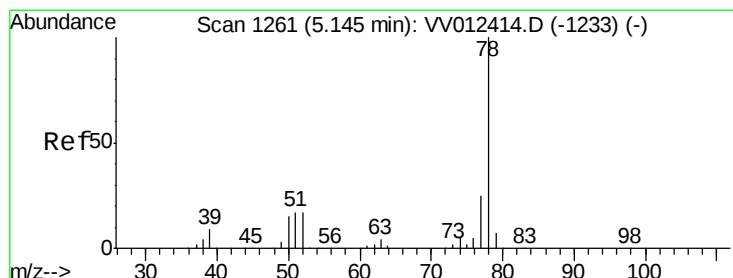
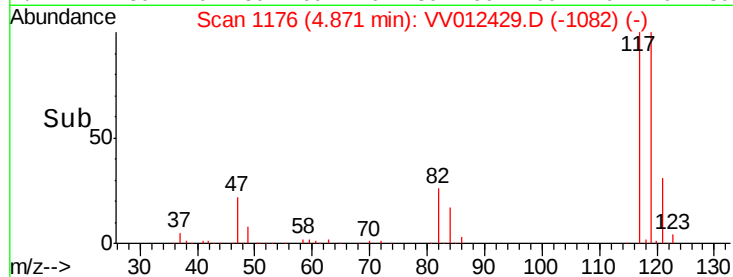
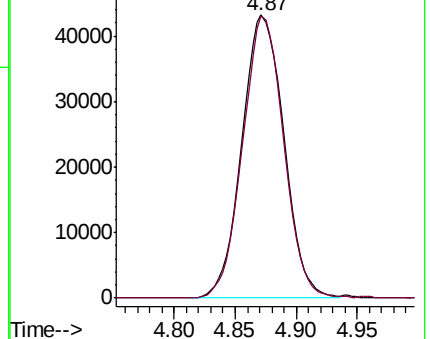
117 100

119 97.2 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.092 ug/L

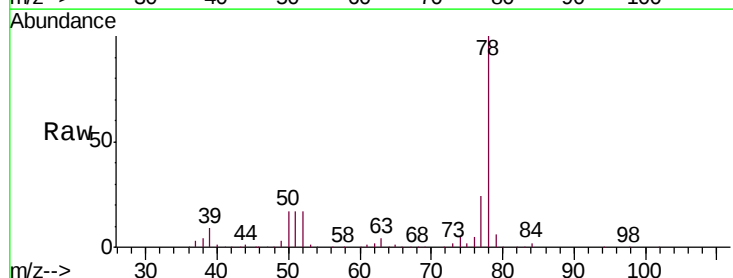
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

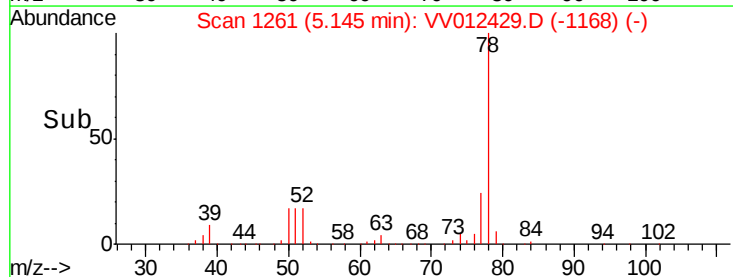
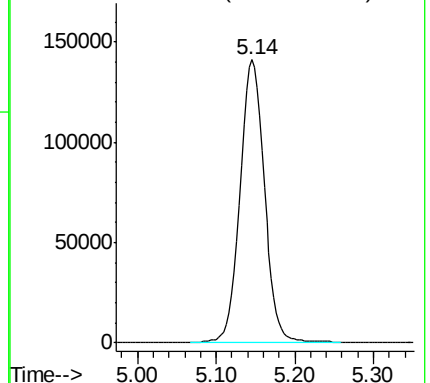
Lab File: VV012429.D

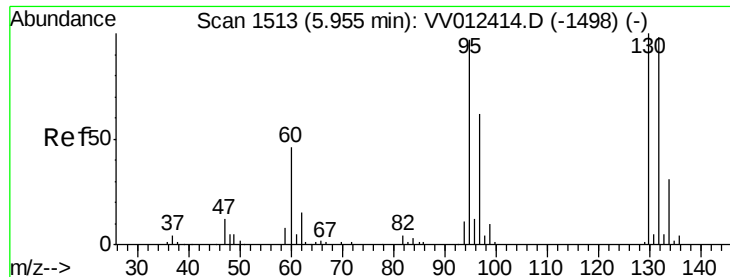
Acq: 27 Aug 2019 15:56

Tgt Ion: 78 Resp: 306897



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.852 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

Tgt Ion: 95 Resp: 78931

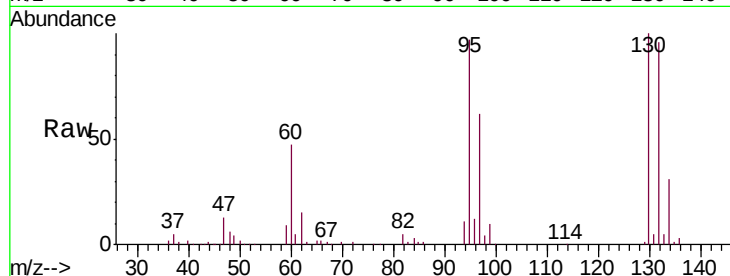
Ion Ratio Lower Upper

95 100

97 63.8 46.3 86.1

132 99.1 70.3 130.7

130 103.2 72.4 134.5

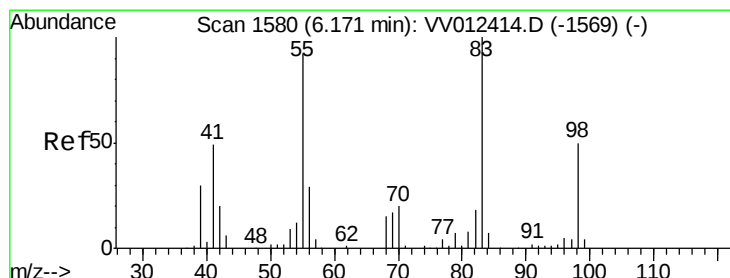
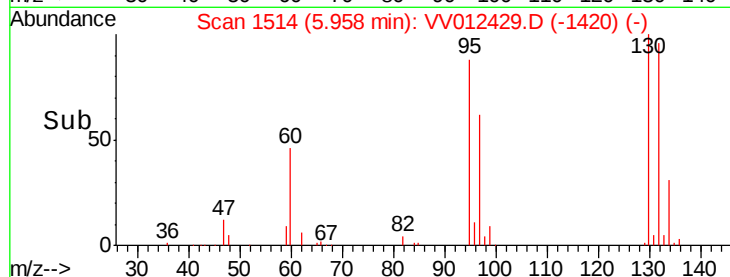
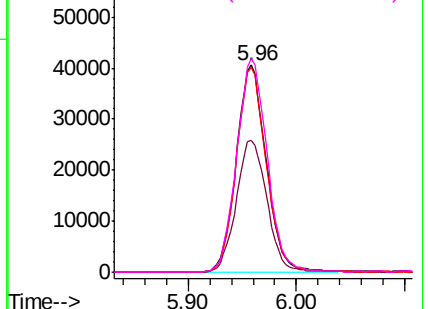


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 4.536 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

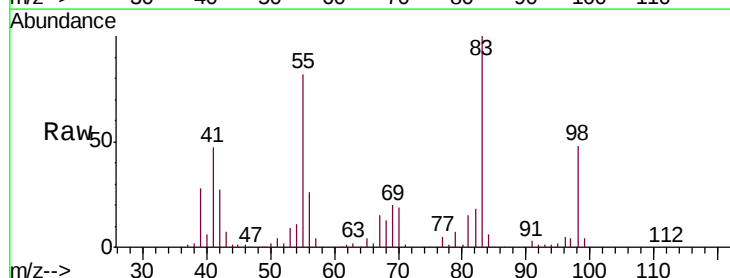
Tgt Ion: 83 Resp: 115902

Ion Ratio Lower Upper

83 100

55 83.5 64.6 97.0

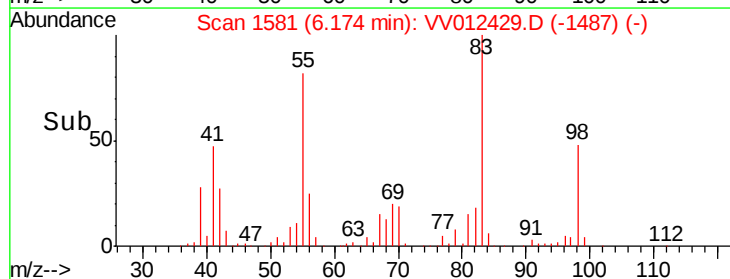
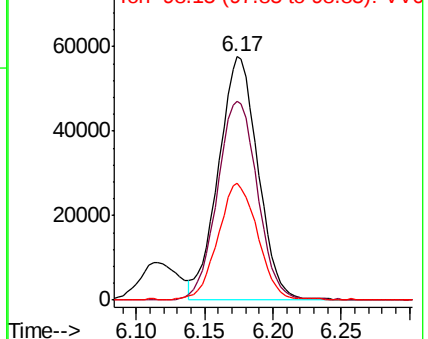
98 48.5 39.0 58.4

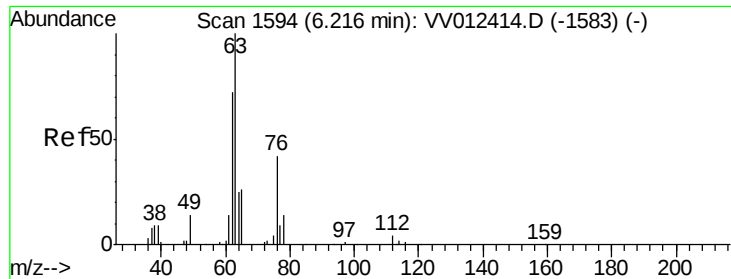


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 4.818 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

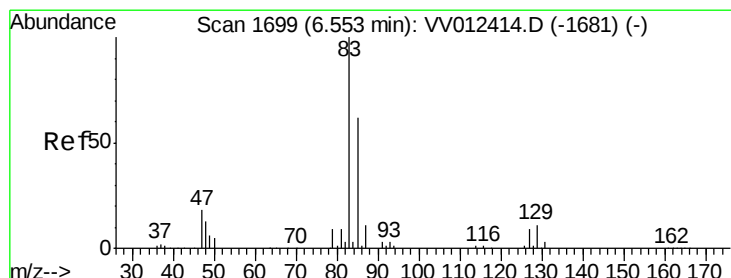
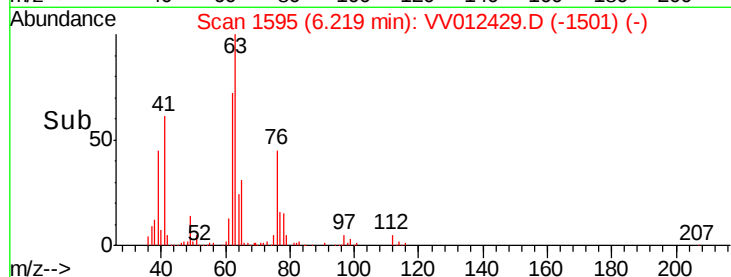
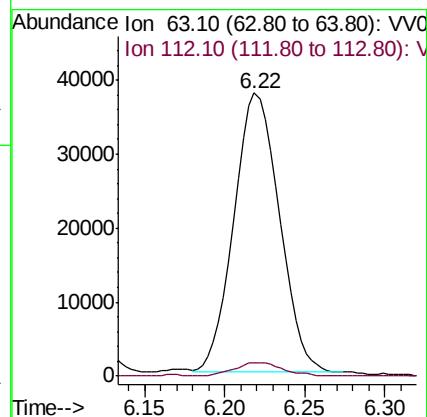
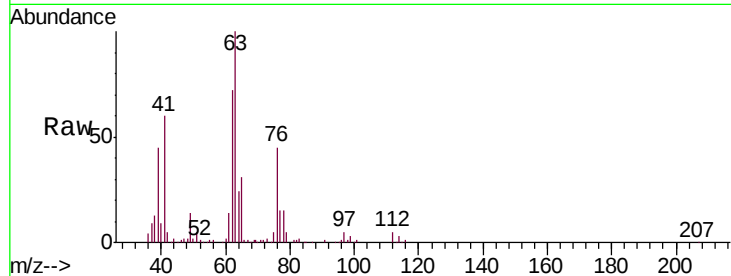
VSTD00554

Tgt Ion: 63 Resp: 73593

Ion Ratio Lower Upper

63 100

112 5.2 4.2 6.2



#38

Bromodichloromethane

Concen: 5.061 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

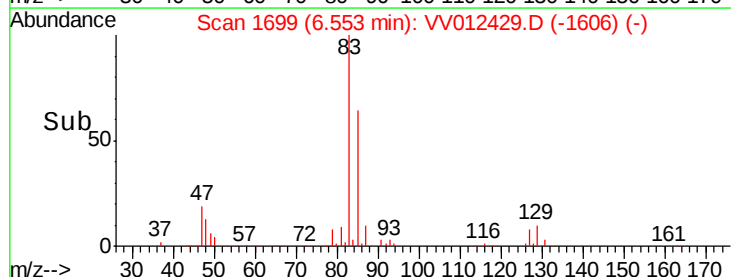
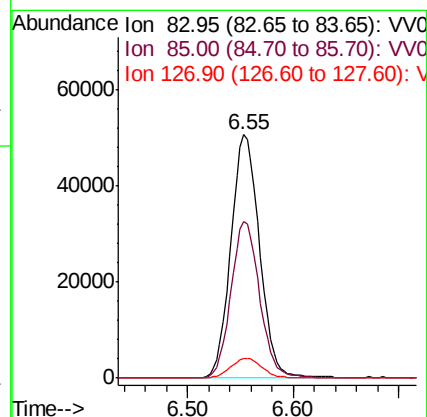
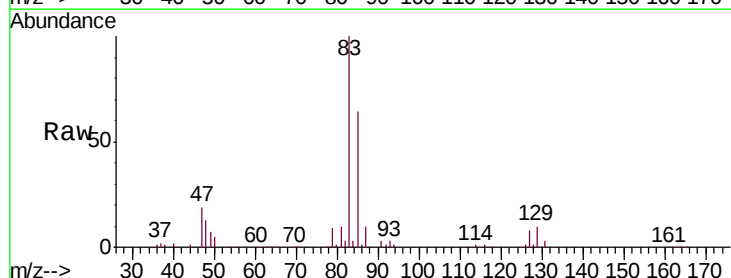
Tgt Ion: 83 Resp: 95364

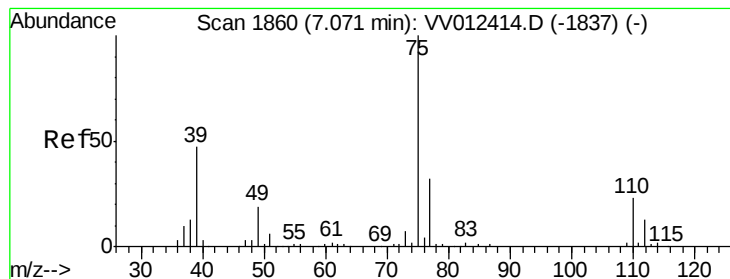
Ion Ratio Lower Upper

83 100

85 64.5 45.0 83.6

127 8.0 7.7 11.5



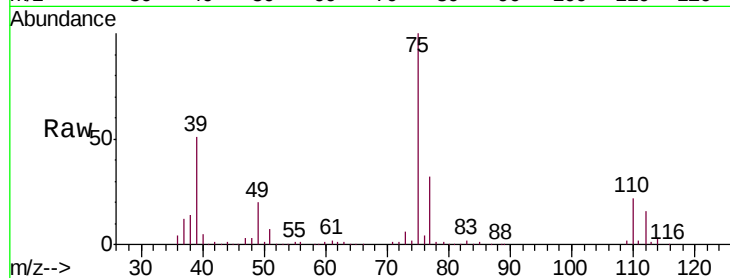


#39

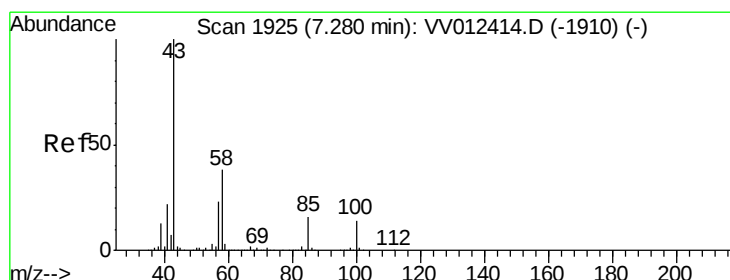
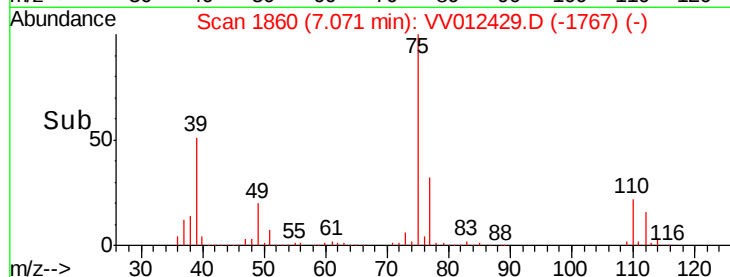
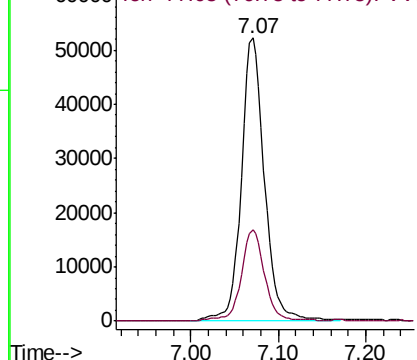
cis-1,3-Dichloropropene
Concen: 4.677 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV012429.D
Acq: 27 Aug 2019 15:56

Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

Tgt Ion: 75 Resp: 96039
Ion Ratio Lower Upper
75 100
77 32.2 23.2 43.2



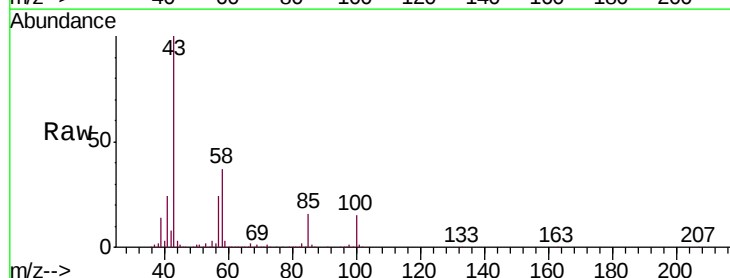
Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0



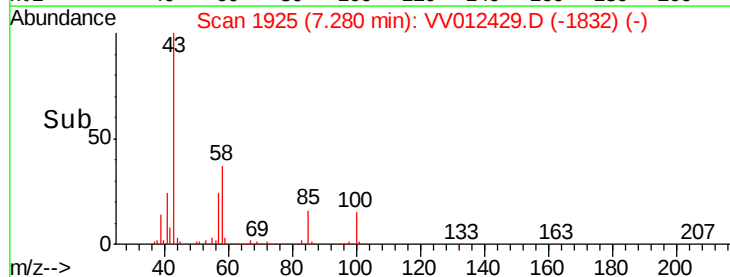
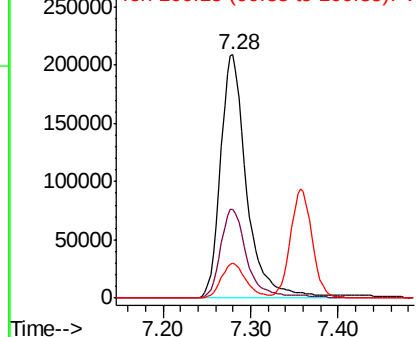
#40

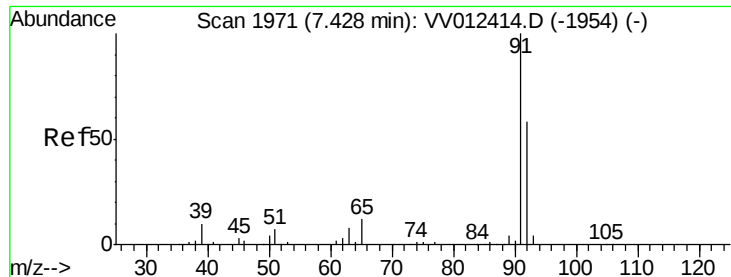
4-Methyl-2-pentanone
Concen: 52.786 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. -0.00 min
Lab File: VV012429.D
Acq: 27 Aug 2019 15:56

Tgt Ion: 43 Resp: 433106
Ion Ratio Lower Upper
43 100
58 36.3 30.7 46.1
100 13.7 11.8 17.6



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





#42

Toluene

Concen: 5.201 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

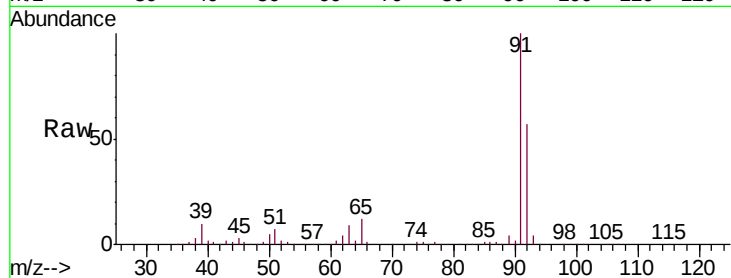
VSTD00554

Tgt Ion: 91 Resp: 320205

Ion Ratio Lower Upper

91 100

92 57.2 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

200000

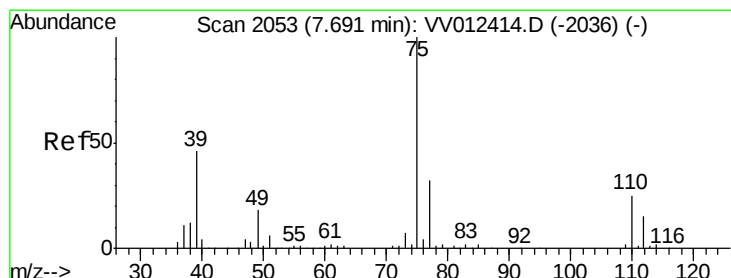
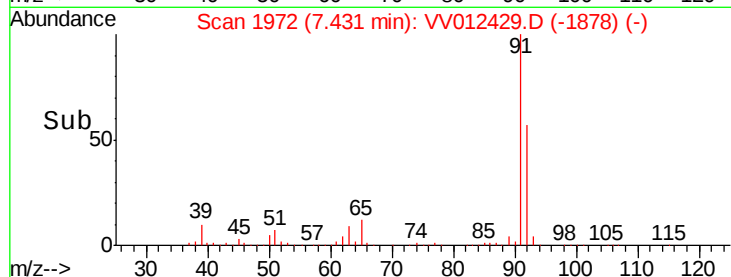
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.938 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012429.D

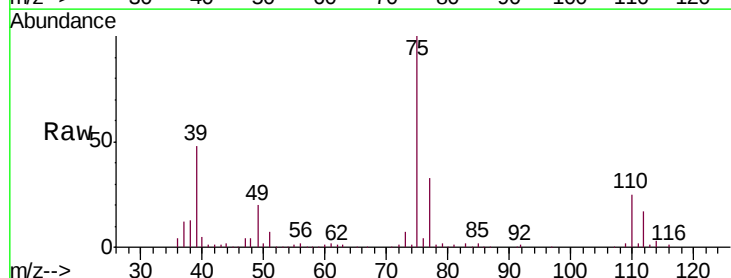
Acq: 27 Aug 2019 15:56

Tgt Ion: 75 Resp: 76702

Ion Ratio Lower Upper

75 100

77 32.5 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

50000

40000

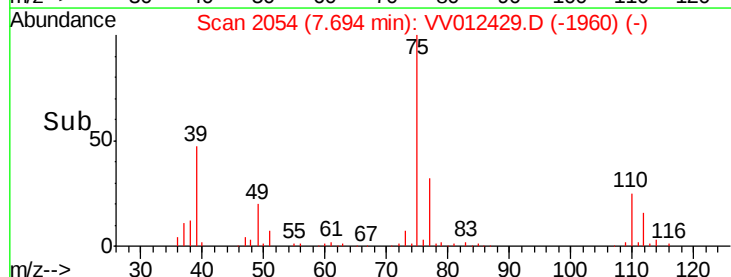
30000

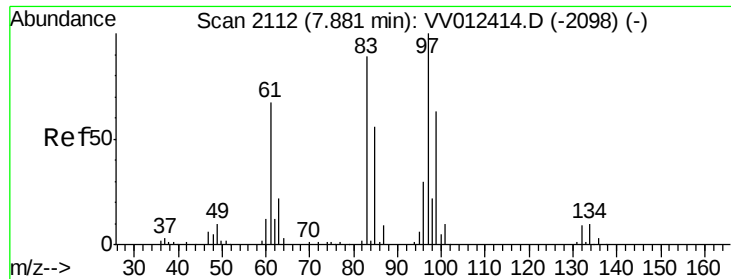
20000

10000

0

Time-->

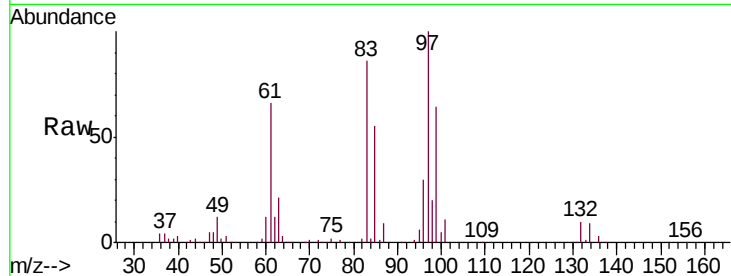




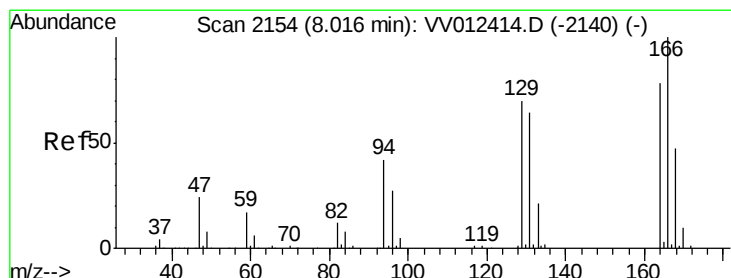
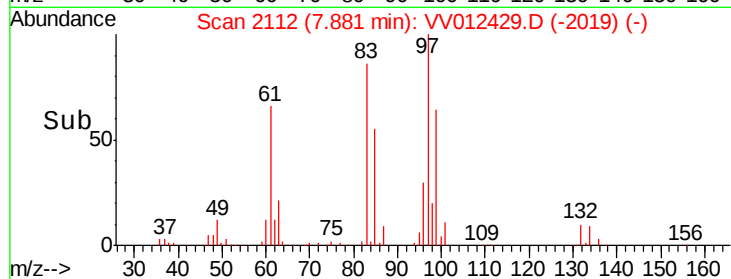
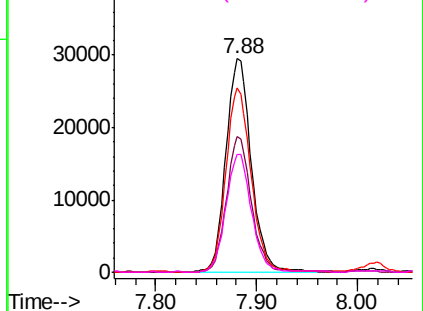
#45
 1,1,2-Trichloroethane
 Concen: 5.263 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV012429.D
 Acq: 27 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

Tgt Ion:	97	Resp:	52080
Ion	Ratio	Lower	Upper
97	100		
99	63.7	45.0	83.6
83	86.1	59.3	110.1
85	55.1	38.8	72.0

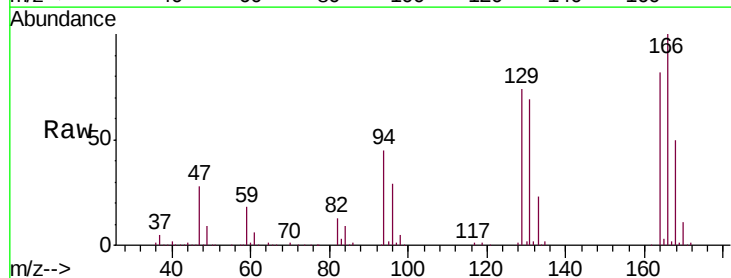


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

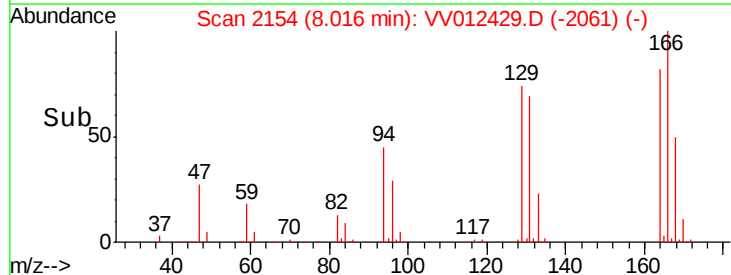
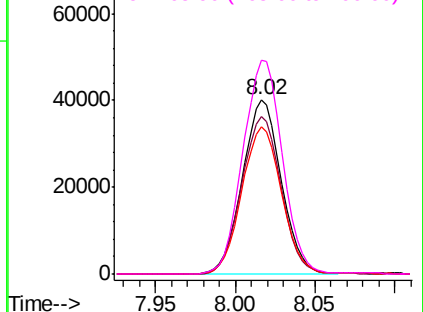


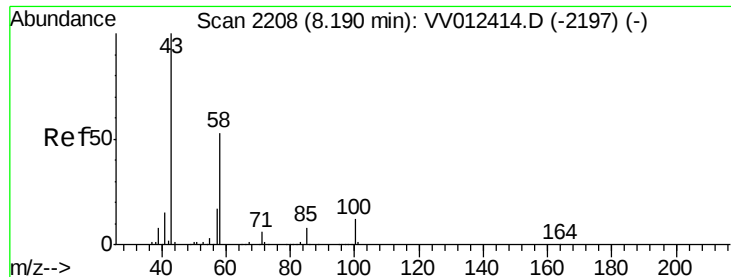
#47
 Tetrachloroethene
 Concen: 5.077 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV012429.D
 Acq: 27 Aug 2019 15:56

Tgt Ion:	164	Resp:	66642
Ion	Ratio	Lower	Upper
164	100		
129	89.9	60.6	112.6
131	84.1	58.8	109.2
166	122.3	87.6	162.8



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

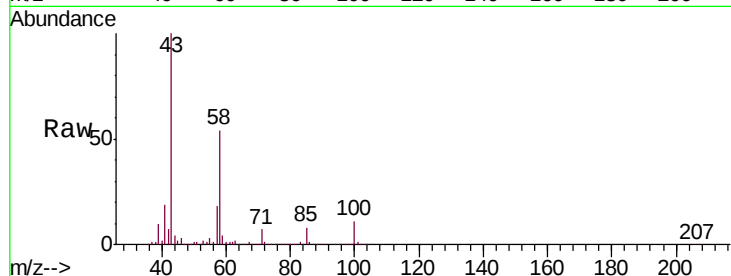




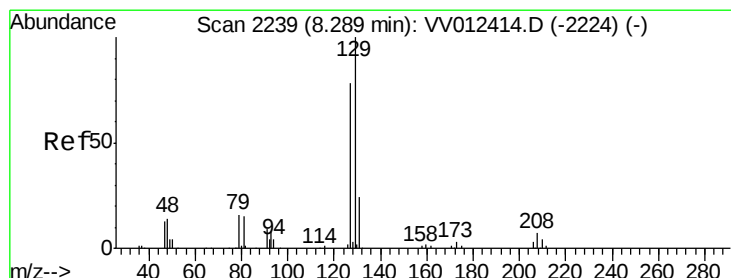
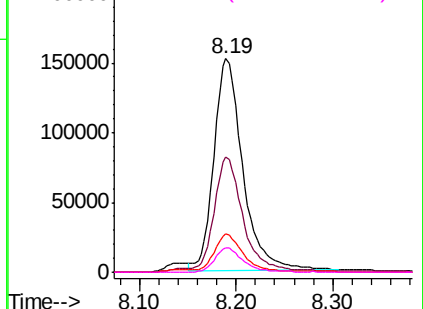
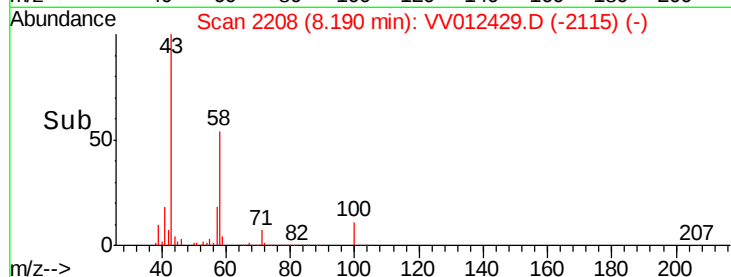
#48
2-Hexanone
Concen: 53.952 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VV012429.D
Acq: 27 Aug 2019 15:56

Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

Tgt Ion:	43	Resp:	318514
Ion	Ratio	Lower	Upper
43	100		
58	56.3	46.3	69.5
57	17.2	14.9	22.3
100	11.0	9.7	14.5

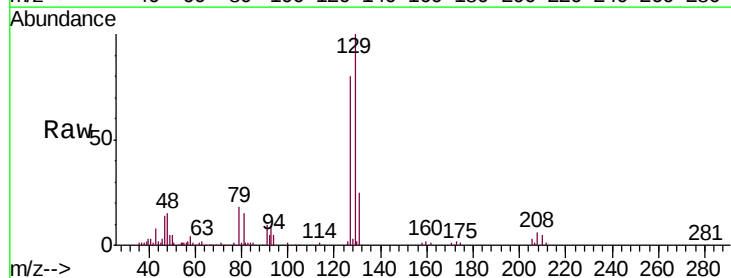


Abundance Ion 43.05 (42.75 to 43.75): VV012429.D (-2115) (-)
Ion 58.05 (57.75 to 58.75): VV012429.D (-2115) (-)
Ion 57.20 (56.90 to 57.90): VV012429.D (-2115) (-)
Ion 100.15 (99.85 to 100.85): VV012429.D (-2115) (-)

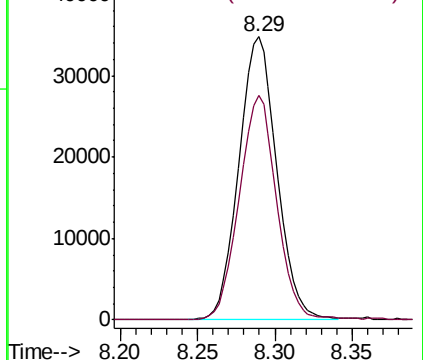
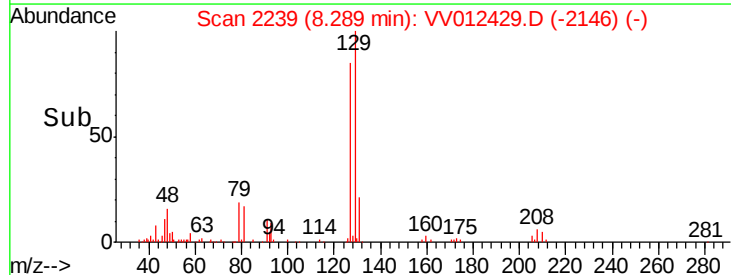


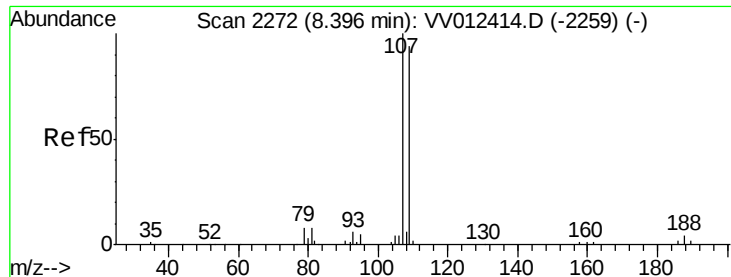
#49
Dibromochloromethane
Concen: 5.003 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012429.D
Acq: 27 Aug 2019 15:56

Tgt Ion:	129	Resp:	59321
Ion	Ratio	Lower	Upper
129	100		
127	79.5	53.8	99.8



Abundance Ion 128.95 (128.65 to 129.65): VV012429.D (-2146) (-)
Ion 126.90 (126.60 to 127.60): VV012429.D (-2146) (-)

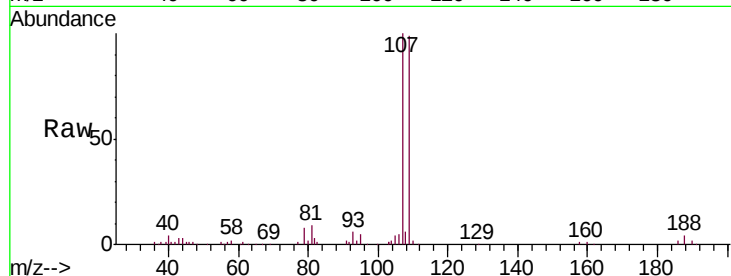




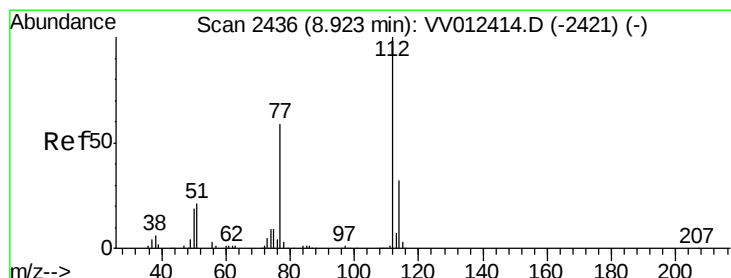
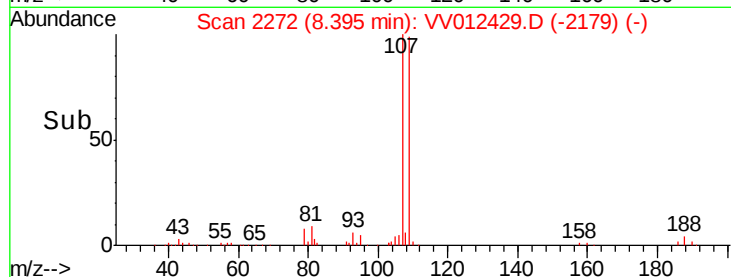
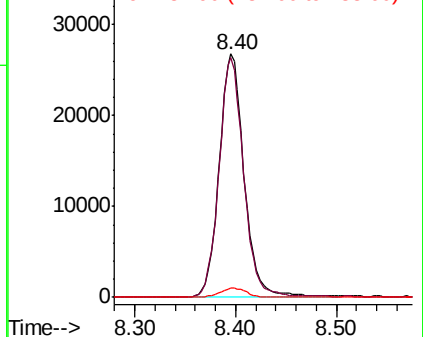
#50
 1,2-Dibromoethane
 Concen: 4.962 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV012429.D
 Acq: 27 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

Tgt Ion:107 Resp: 46423
 Ion Ratio Lower Upper
 107 100
 109 98.7 64.9 120.5
 188 3.7 3.5 5.3

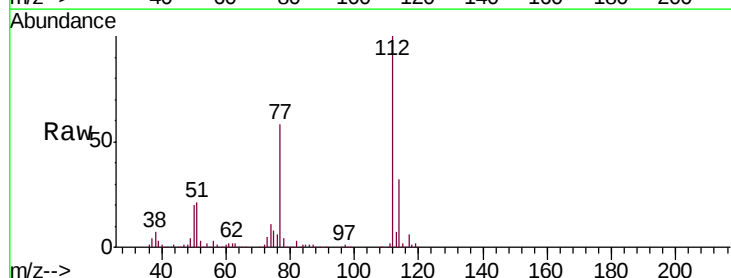


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

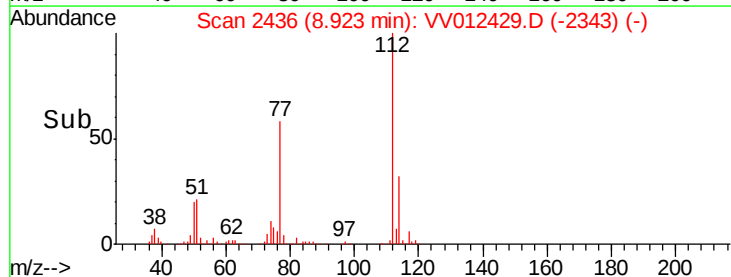
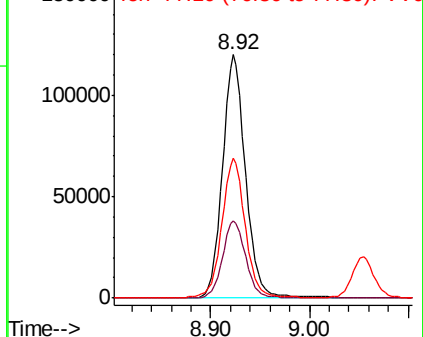


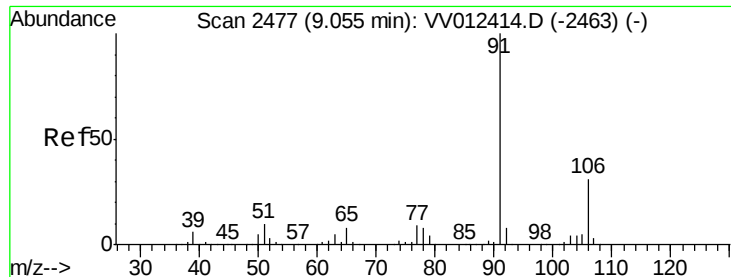
#51
 Chlorobenzene
 Concen: 4.891 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV012429.D
 Acq: 27 Aug 2019 15:56

Tgt Ion:112 Resp: 196762
 Ion Ratio Lower Upper
 112 100
 114 31.9 23.0 42.6
 77 57.6 46.4 69.6



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: 4.825 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

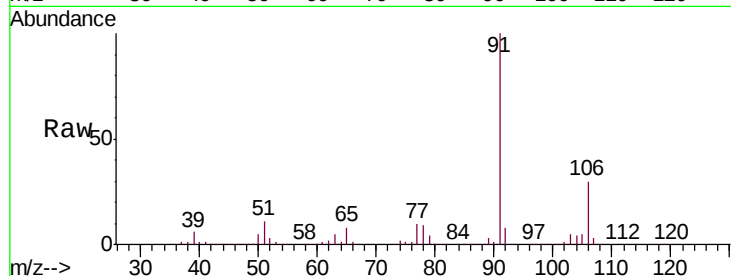
VSTD00554

Tgt Ion: 91 Resp: 319763

Ion Ratio Lower Upper

91 100

106 30.5 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VV012414.D (-2463) (-)

Ion 106.15 (105.85 to 106.85): VV012414.D (-2463) (-)

9.05

200000

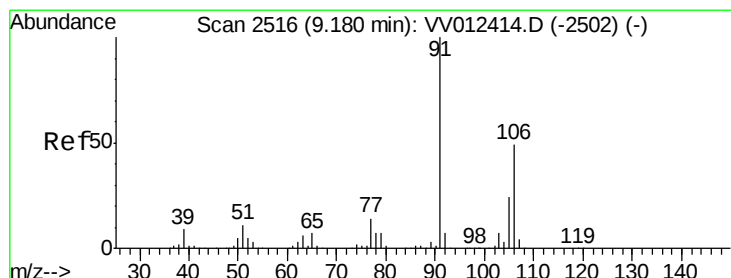
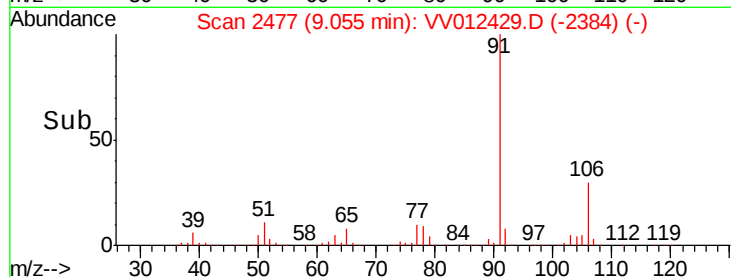
150000

100000

50000

0

Time--> 8.95 9.00 9.05 9.10 9.15



#53

m,p-xylene

Concen: 4.903 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012429.D

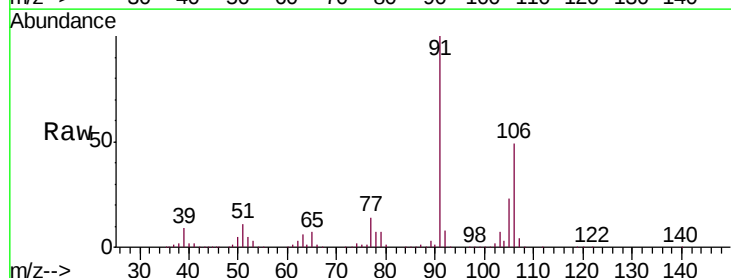
Acq: 27 Aug 2019 15:56

Tgt Ion: 106 Resp: 121828

Ion Ratio Lower Upper

106 100

91 203.9 140.8 261.4



Abundance Ion 106.15 (105.85 to 106.85): VV012414.D (-2502) (-)

Ion 91.15 (90.85 to 91.85): VV012414.D (-2502) (-)

9.18

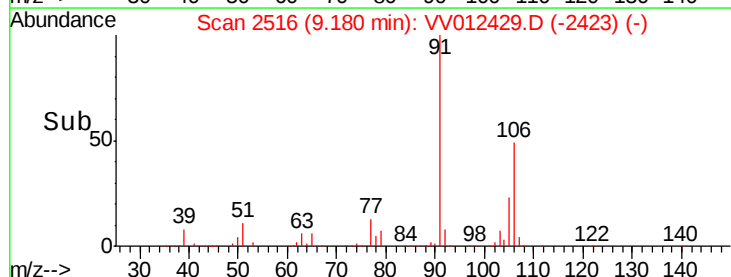
150000

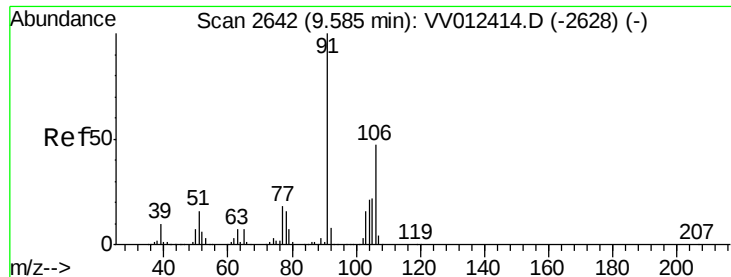
100000

50000

0

Time--> 9.10 9.15 9.20 9.25





#54

o-xylene

Concen: 4.919 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

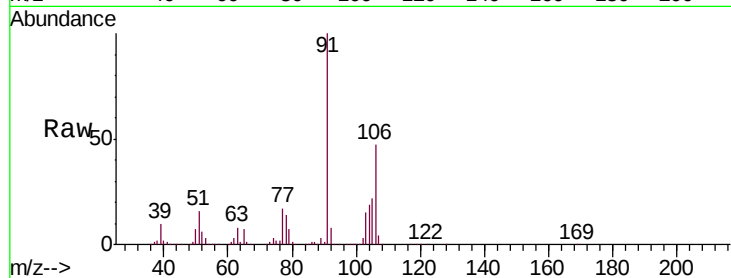
VSTD00554

Tgt Ion:106 Resp: 116302

Ion Ratio Lower Upper

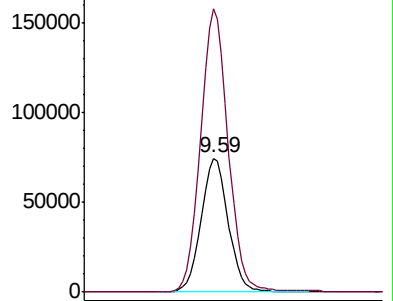
106 100

91 210.9 149.5 277.7

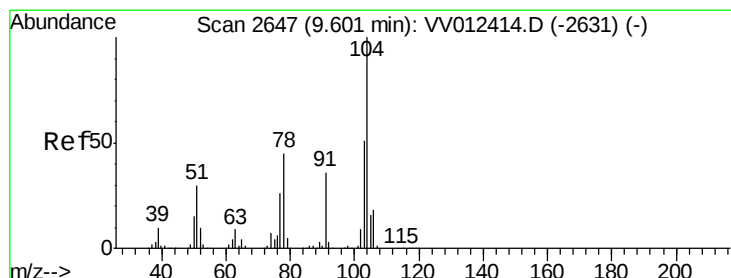
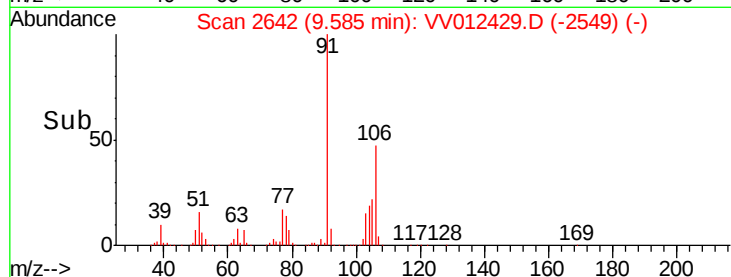


Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



Time-->



#55

Styrene

Concen: 5.093 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012429.D

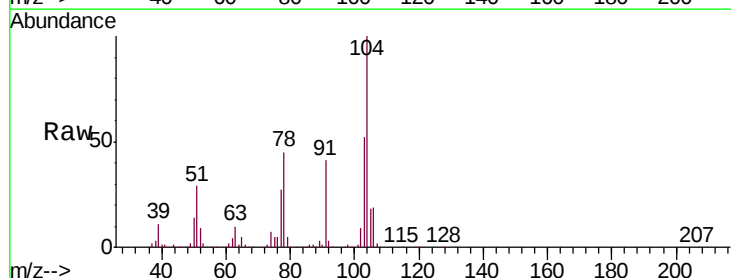
Acq: 27 Aug 2019 15:56

Tgt Ion:104 Resp: 201442

Ion Ratio Lower Upper

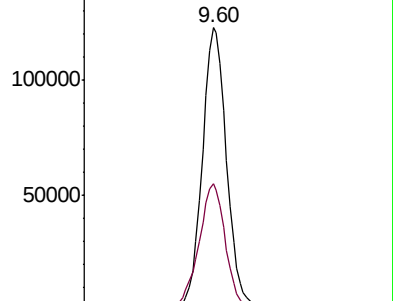
104 100

78 45.0 29.8 55.3

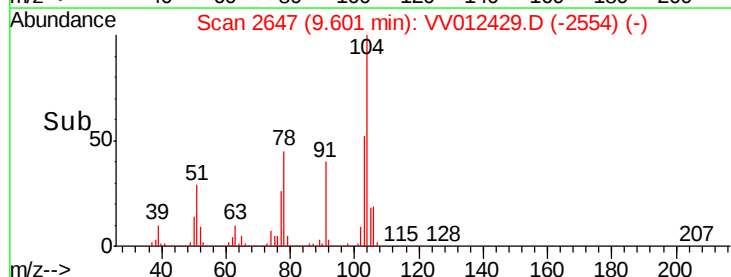


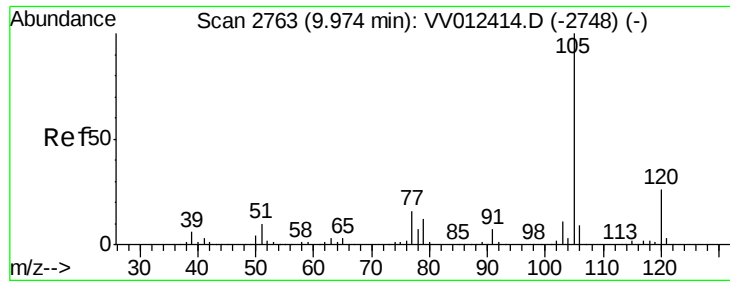
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0



Time-->





#56

Isopropylbenzene

Concen: 4.869 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

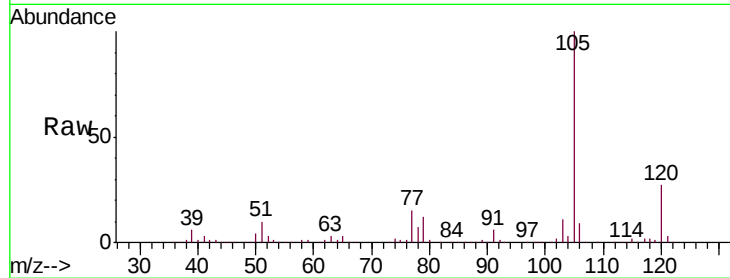
Tgt Ion: 105 Resp: 308084

Ion Ratio Lower Upper

105 100

120 26.7 21.5 32.3

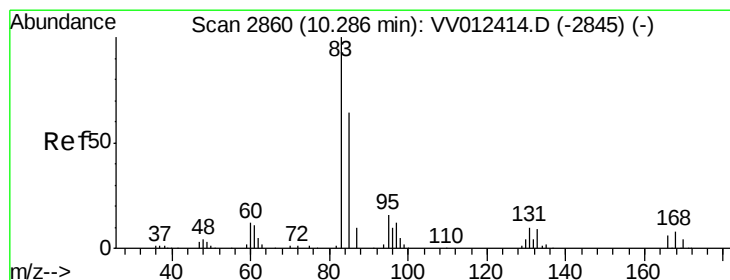
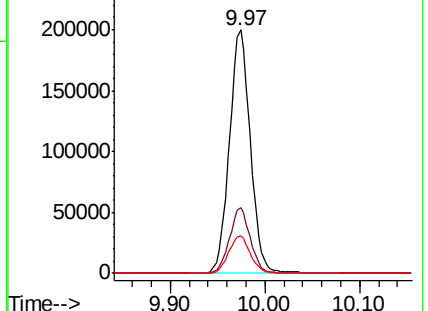
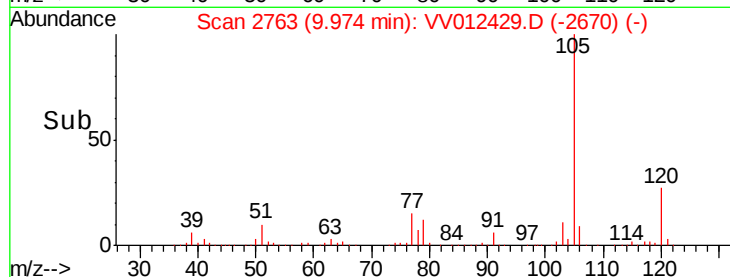
77 16.1 12.5 18.7



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: 4.865 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

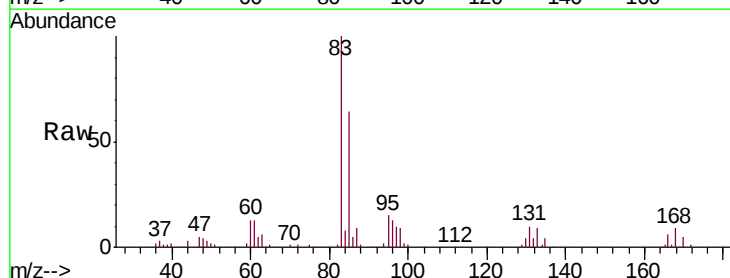
Tgt Ion: 83 Resp: 51679

Ion Ratio Lower Upper

83 100

85 63.9 46.5 86.5

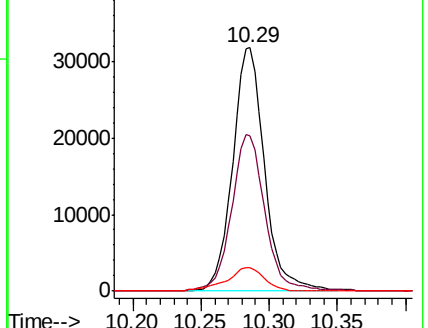
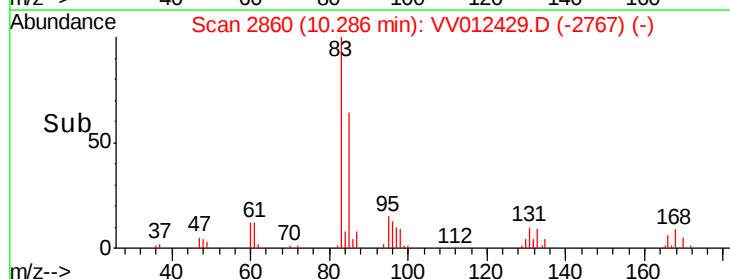
131 9.6 8.9 13.3

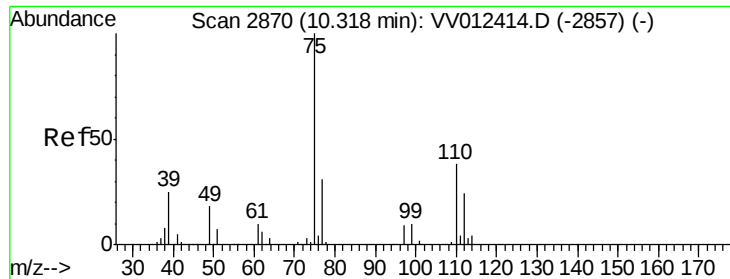


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.053 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

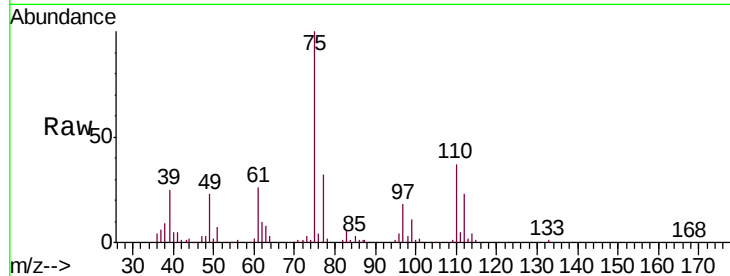
VSTD00554

Tgt Ion: 75 Resp: 42394

Ion Ratio Lower Upper

75 100

77 33.0 25.9 38.9

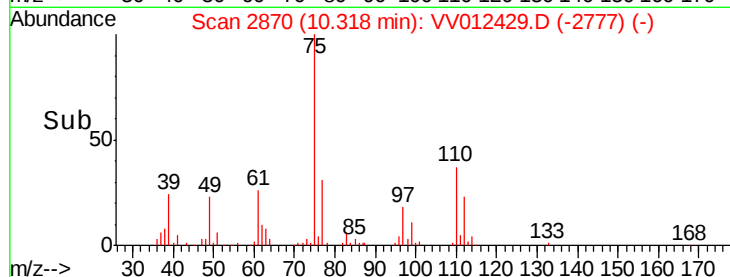


Abundance Ion 75.00 (74.70 to 75.70): VV012414.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV012414.D (-2857) (-)

10.32

Time-->

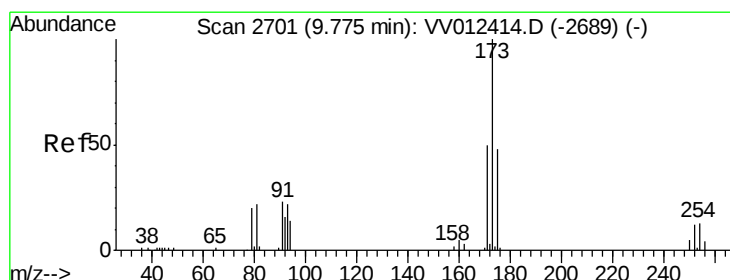


Abundance Ion 75.00 (74.70 to 75.70): VV012429.D (-2777) (-)

Ion 77.00 (76.70 to 77.70): VV012429.D (-2777) (-)

10.32

Time-->



#61

Bromoform

Concen: 4.581 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

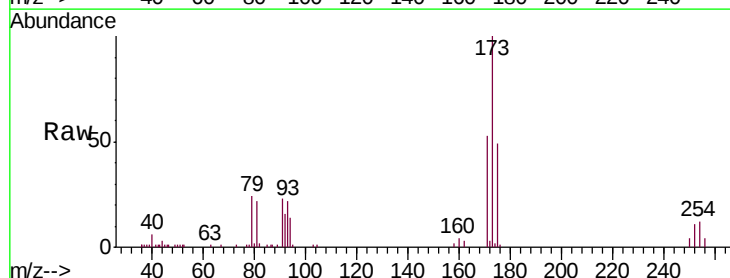
Tgt Ion: 173 Resp: 30555

Ion Ratio Lower Upper

173 100

175 50.2 40.7 61.1

254 11.2 9.5 14.3



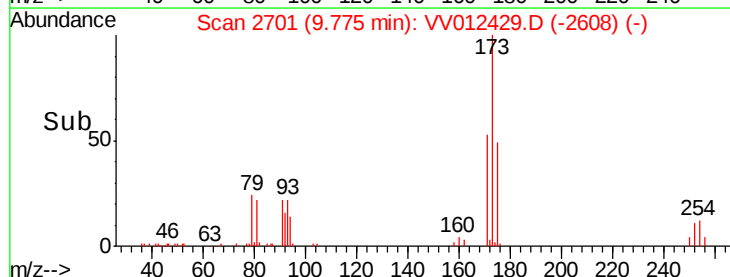
Abundance Ion 172.90 (172.60 to 173.60): VV012414.D (-2689) (-)

Ion 174.90 (174.60 to 175.60): VV012414.D (-2689) (-)

Ion 253.75 (253.45 to 254.45): VV012414.D (-2689) (-)

9.77

Time-->



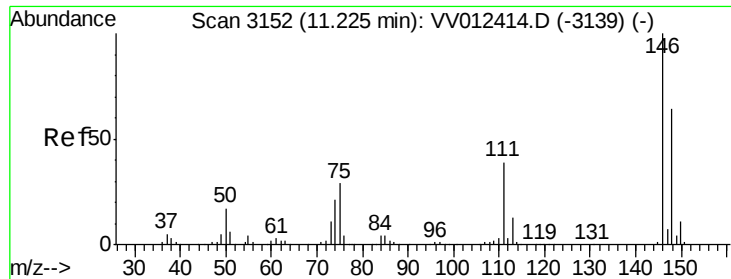
Abundance Ion 172.90 (172.60 to 173.60): VV012429.D (-2608) (-)

Ion 174.90 (174.60 to 175.60): VV012429.D (-2608) (-)

Ion 253.75 (253.45 to 254.45): VV012429.D (-2608) (-)

9.77

Time-->



#62

1,3-Dichlorobenzene

Concen: 4.799 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

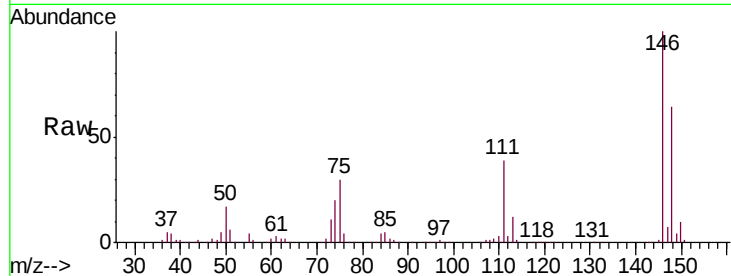
Tgt Ion:146 Resp: 151546

Ion Ratio Lower Upper

146 100

111 38.6 27.0 50.2

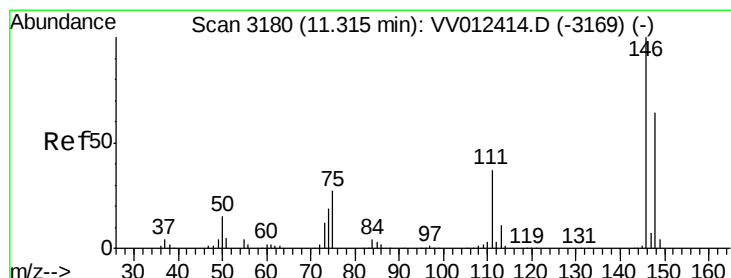
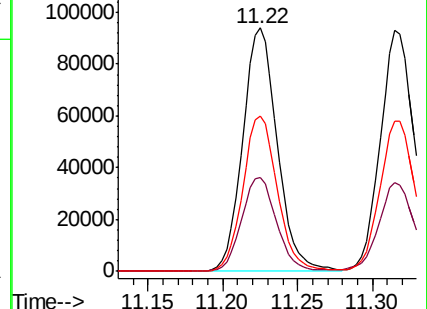
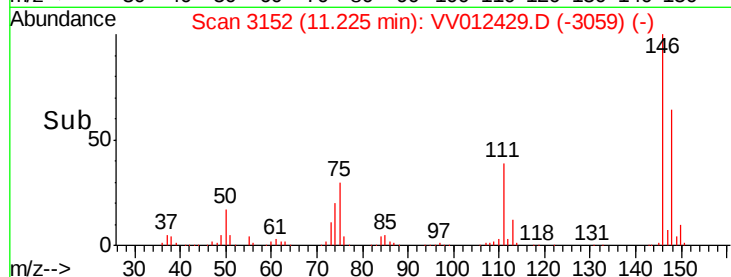
148 64.0 44.7 83.1



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: 4.737 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

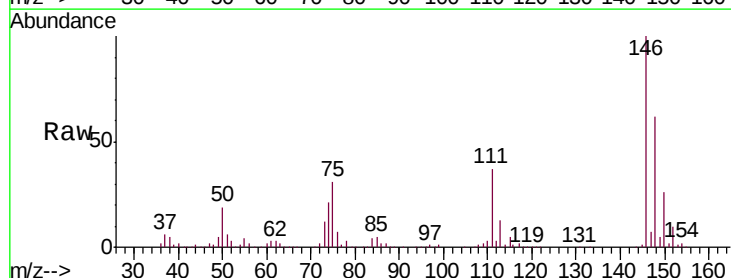
Tgt Ion:146 Resp: 149821

Ion Ratio Lower Upper

146 100

111 36.9 25.7 47.7

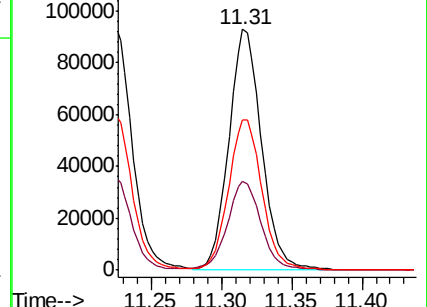
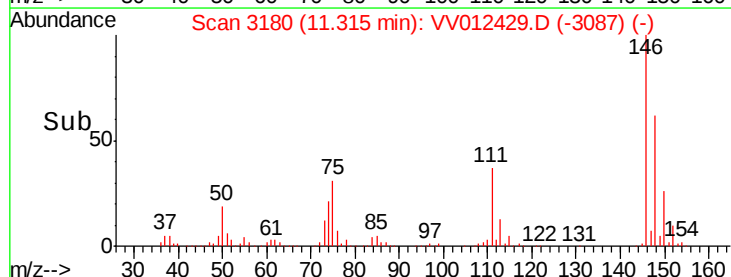
148 62.4 45.0 83.6

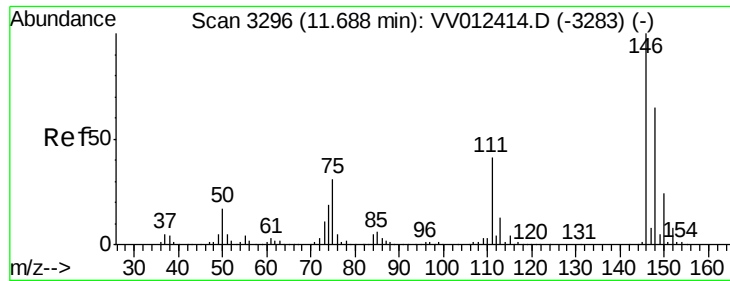


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.820 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

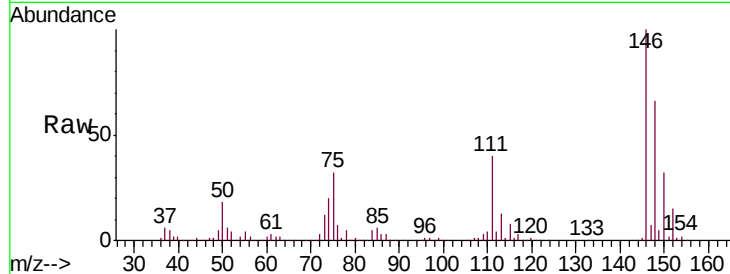
Tgt Ion:146 Resp: 139957

Ion Ratio Lower Upper

146 100

111 40.5 31.9 47.9

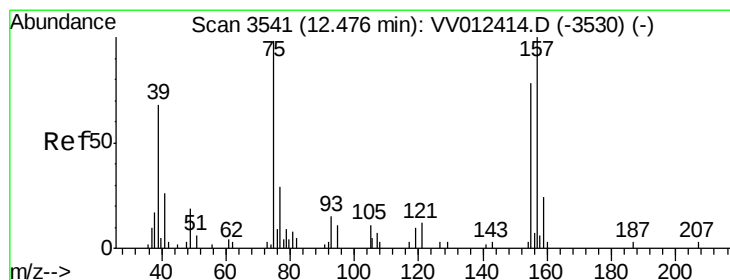
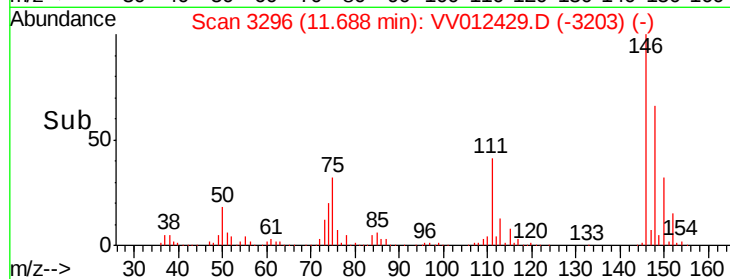
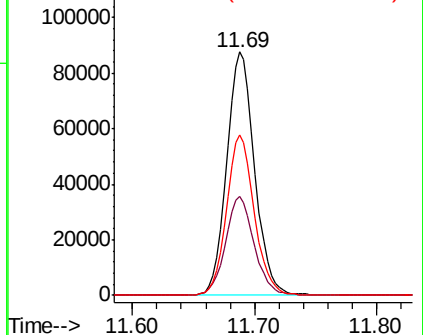
148 65.9 50.2 75.4



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: 4.402 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

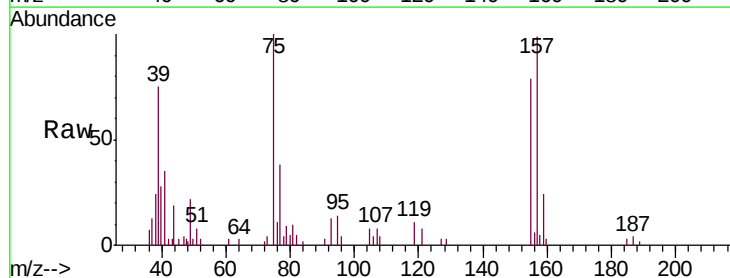
Tgt Ion: 75 Resp: 7328

Ion Ratio Lower Upper

75 100

155 78.6 72.6 109.0

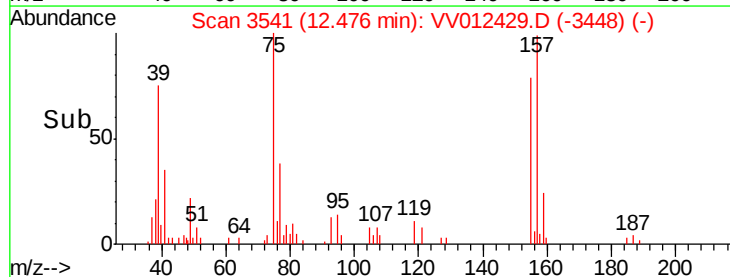
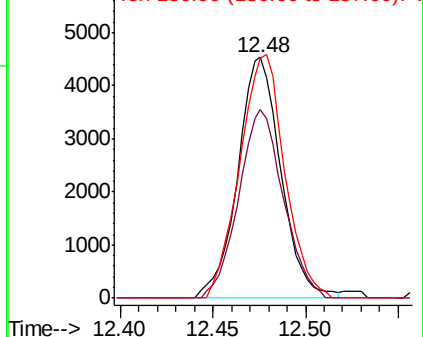
157 99.4 80.5 120.7

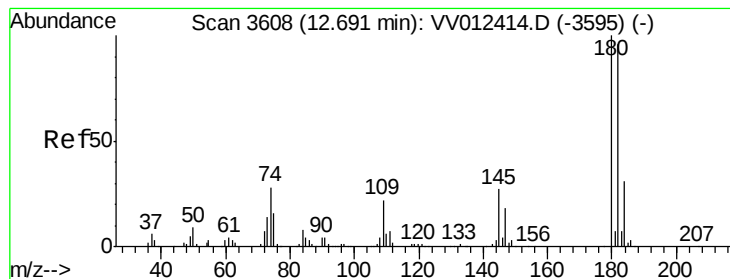


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#67

1,3,5-Trichlorobenzene

Concen: 4.424 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampled :

VSTD00554

Tgt Ion:180 Resp: 106954

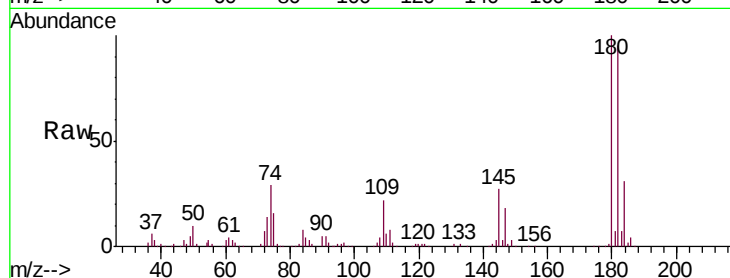
Ion Ratio Lower Upper

180 100

182 95.4 76.4 114.6

184 30.5 23.9 35.9

145 28.2 22.1 33.1

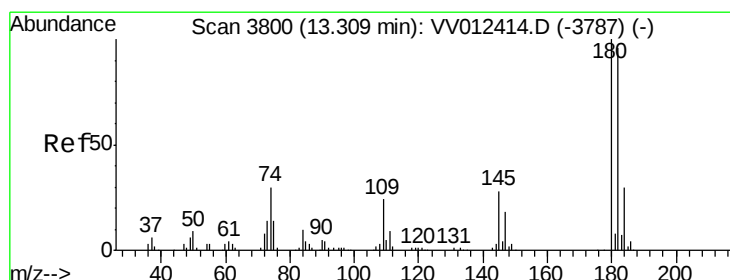
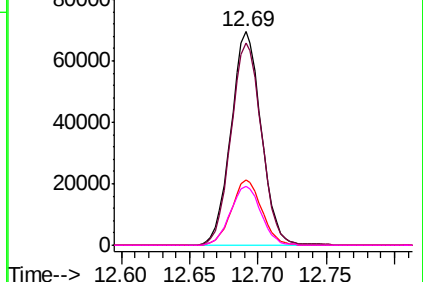
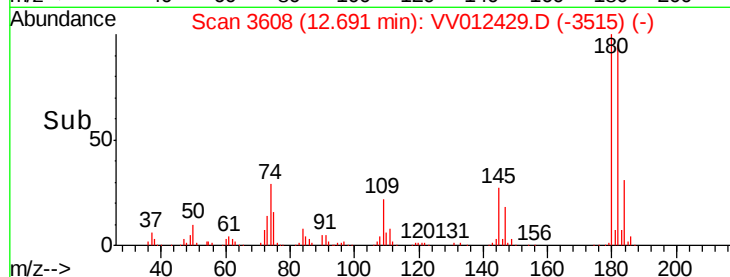


Abundance Ion 180.00 (179.70 to 180.70): V

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: 4.291 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

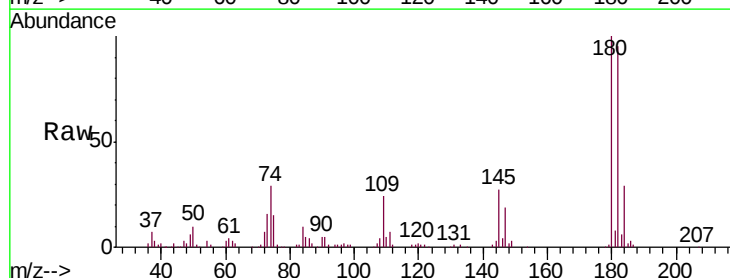
Tgt Ion:180 Resp: 72312

Ion Ratio Lower Upper

180 100

182 94.8 77.3 115.9

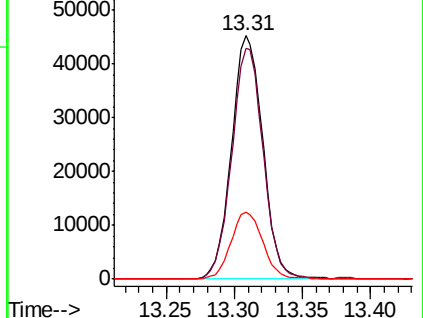
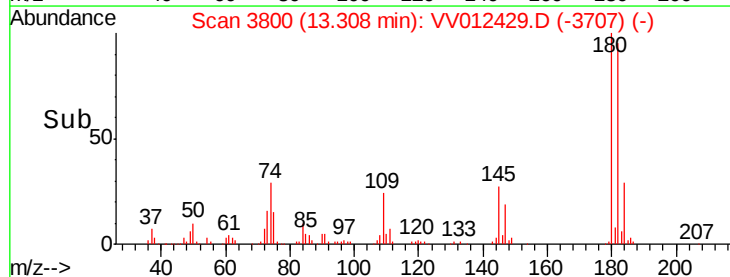
145 27.8 22.6 34.0

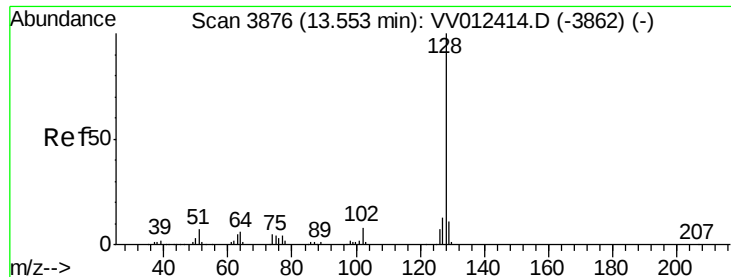


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 3.624 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

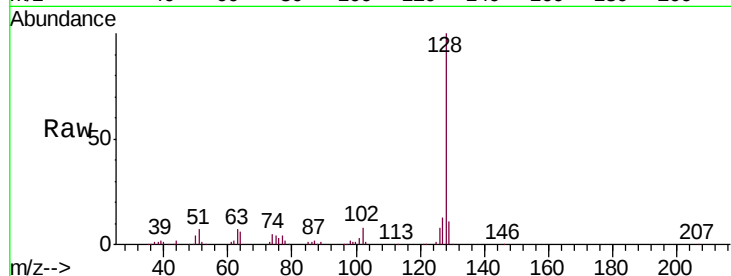
Tgt Ion:128 Resp: 84525

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

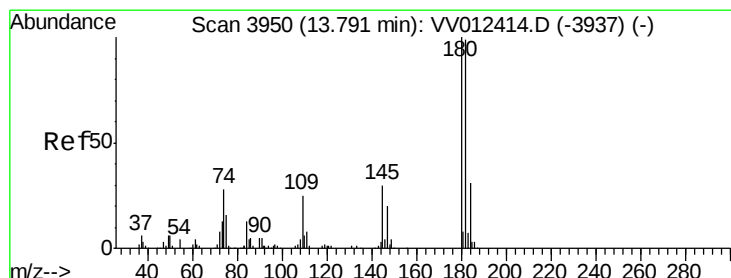
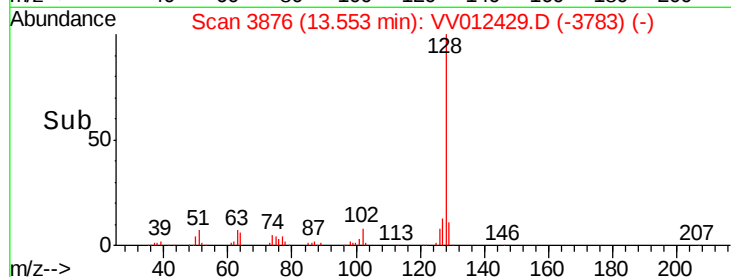
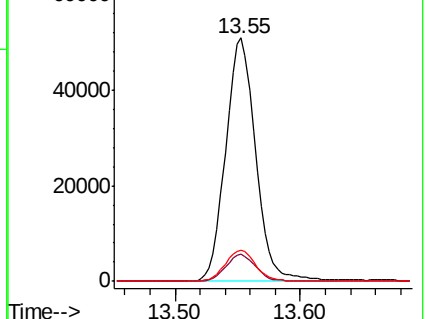
127 12.9 10.5 15.7



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: 4.346 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012429.D

Acq: 27 Aug 2019 15:56

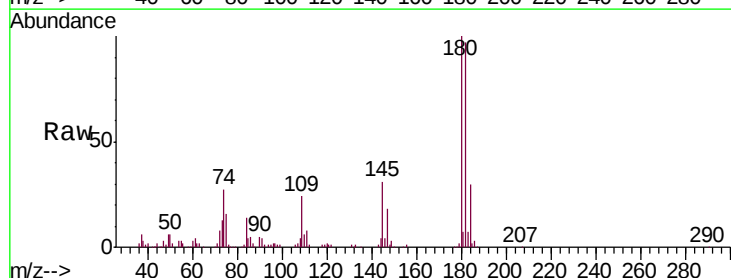
Tgt Ion:180 Resp: 68591

Ion Ratio Lower Upper

180 100

182 96.8 75.1 112.7

145 31.3 23.4 35.2



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

