

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\
 Data File : VV009163.D
 Acq On : 04 Jan 2019 15:43
 Operator : SY/MD
 Sample : VSTDCCC025
 Misc : 5.00 G/10ML/MSVOA V/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

Quant Time: Jan 05 05:00:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:53:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	189451	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	171101	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	84963	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	26488	20.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	81.80%
7) Chloroethane-d5	1.58	69	27241	21.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.68%
10) 1,1-Dichloroethene-d2	2.13	63	94640	21.85	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.40%
20) 2-Butanone-d5	3.96	46	38807	42.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	85.14%
24) Chloroform-d	4.40	84	90344	22.65	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.60%
26) 1,2-Dichloroethane-d4	5.08	65	48309	22.64	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.56%
29) Benzene-d6	5.10	84	173681	22.78	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.12%
33) 1,2-Dichloropropane-d6	6.12	67	49615	22.70	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	90.80%
37) Toluene-d8	7.36	98	161976	22.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.08%
38) trans-1,3-Dichloropropene-	7.67	79	23104	22.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.12%
39) 2-Hexanone-d5	8.14	63	22931	44.45	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.90%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	55028	22.91	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.64%
61) 1,2-Dichlorobenzene-d4	11.67	152	62397	21.73	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.92%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	68498	22.493	ug/L	100
3) Chloromethane	1.25	50	46105	22.354	ug/L	99
5) Vinyl chloride	1.32	62	51208	23.187	ug/L	99
6) Bromomethane	1.53	94	35837	23.037	ug/L	98
8) Chloroethane	1.60	64	31475	23.126	ug/L	98
9) Trichlorofluoromethane	1.76	101	95379	23.557	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	63999	23.734	ug/L	99
12) 1,1-Dichloroethene	2.14	96	56123	23.999	ug/L	98
13) Acetone	2.21	43	51949	40.208	ug/L	97
14) Carbon disulfide	2.31	76	152240	22.783	ug/L	99
15) Methyl Acetate	2.47	43	35177	22.004	ug/L	96
16) Methylene chloride	2.53	84	60006	21.201	ug/L	95
17) Methyl tert-butyl Ether	2.81	73	138670	24.209	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	59674	24.078	ug/L	99
19) 1,1-Dichloroethane	3.23	63	100562	24.435	ug/L	99
21) 2-Butanone	4.04	43	51296	45.392	ug/L #	88
22) cis-1,2-Dichloroethene	3.96	96	65045	24.551	ug/L	95

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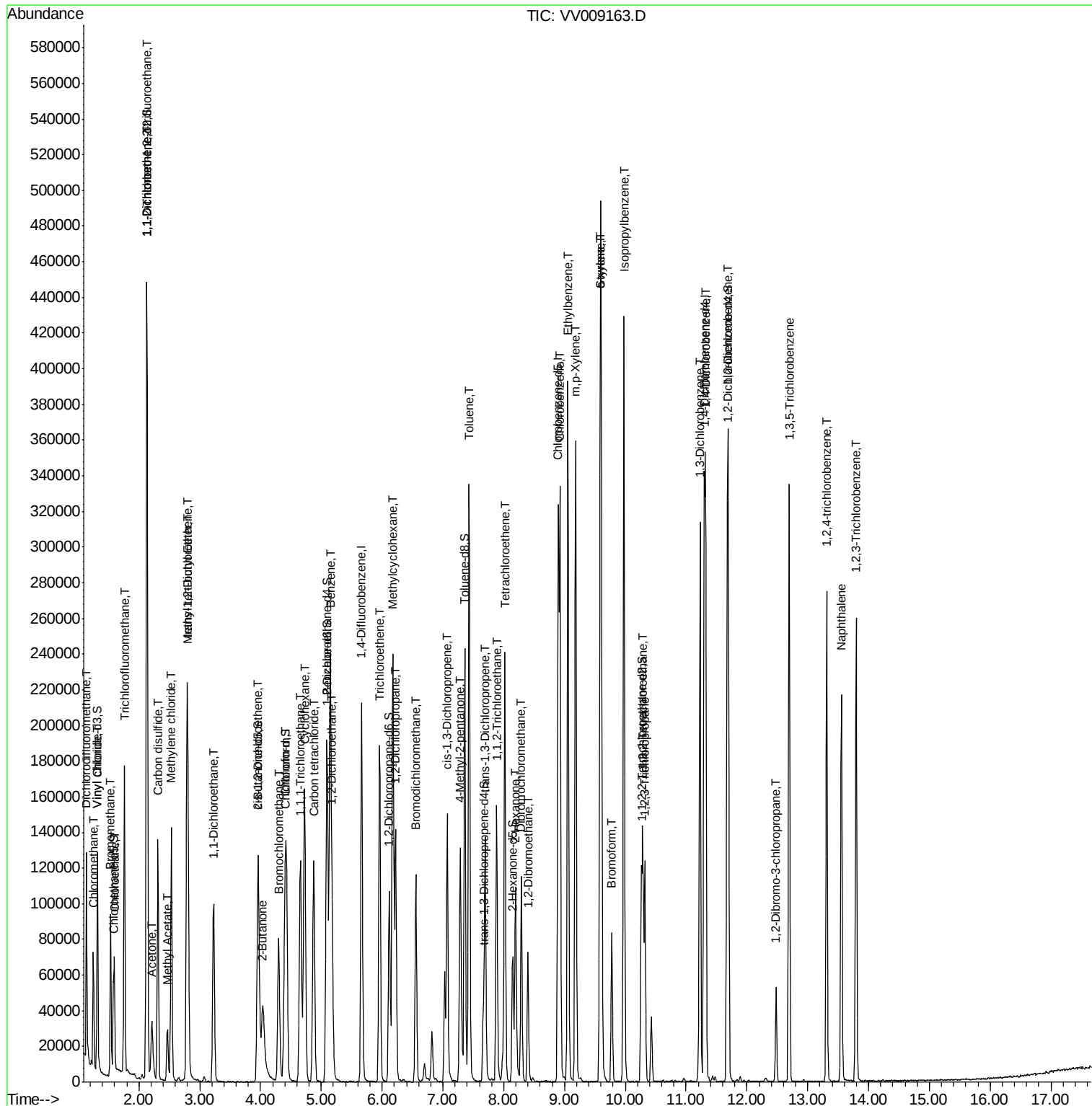
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	30252	24.270	ug/L	94
25) Chloroform	4.43	83	107753	24.587	ug/L	99
27) 1,2-Dichloroethane	5.18	62	71640	24.336	ug/L	97
30) Cyclohexane	4.72	56	90257	23.795	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	101980	24.515	ug/L	99
32) Carbon tetrachloride	4.87	117	92624	24.326	ug/L	99
34) Benzene	5.15	78	222978	24.242	ug/L	100
35) Trichloroethene	5.96	95	65077	24.558	ug/L	98
36) Methylcyclohexane	6.18	83	106012	23.943	ug/L	99
40) 1,2-Dichloropropane	6.22	63	55114	24.860	ug/L	98
41) Bromodichloromethane	6.55	83	75616	24.883	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	88047	25.062	ug/L	99
43) 4-Methyl-2-pentanone	7.28	43	97556	46.165	ug/L	97
44) Toluene	7.43	91	244438	24.649	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	76940	25.015	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	50056	25.546	ug/L	97
47) Tetrachloroethene	8.02	164	55949	24.370	ug/L	99
49) 2-Hexanone	8.19	43	71920	46.244	ug/L	98
50) Dibromochloromethane	8.29	129	61125	25.393	ug/L	100
51) 1,2-Dibromoethane	8.40	107	50064	24.434	ug/L	98
52) Chlorobenzene	8.93	112	165199	24.279	ug/L	99
53) Ethylbenzene	9.05	91	279412	24.914	ug/L	98
54) m,p-Xylene	9.18	106	108006	24.718	ug/L	96
55) o-xylene	9.59	106	103277	25.562	ug/L	97
56) Styrene	9.60	104	170181	24.973	ug/L	99
57) Isopropylbenzene	9.98	105	282520	25.203	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	64668	24.632	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	50124	23.887	ug/L	100
62) Bromoform	9.78	173	38316	25.535	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	131692	24.600	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	133677	23.956	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	124766	24.467	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	12887	24.342	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	102782	23.806	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	83540	23.772	ug/L	99
69) Naphthalene	13.55	128	173473	24.235	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	75951	23.550	ug/L	96

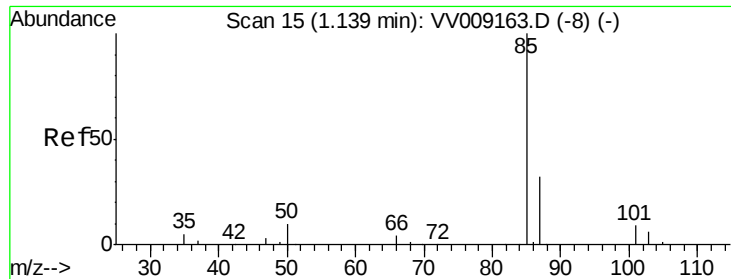
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.493 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

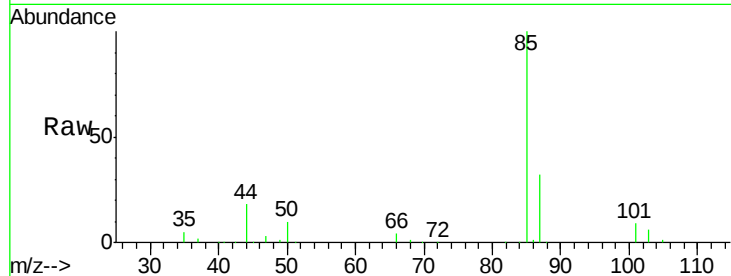
VSTD02573

Tot Ion: 85 Resp: 68498

Ion Ratio Lower Upper

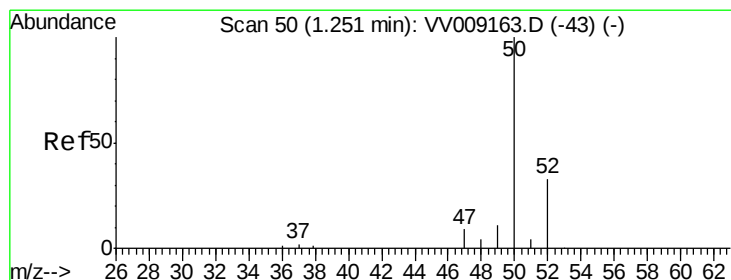
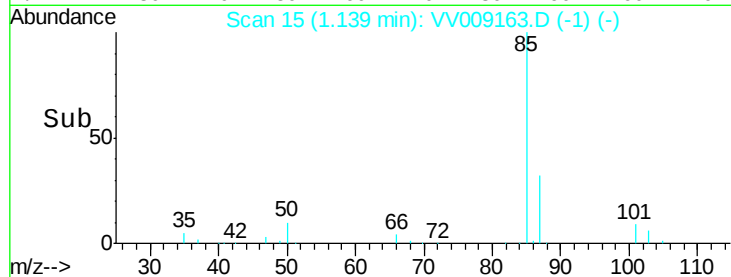
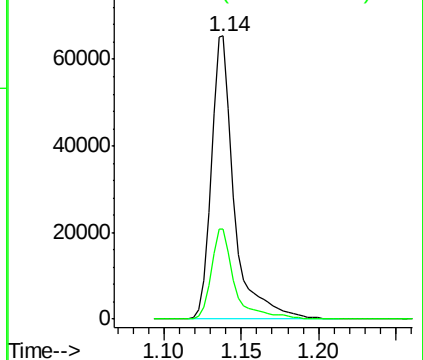
85 100

87 32.3 22.5 41.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 22.354 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009163.D

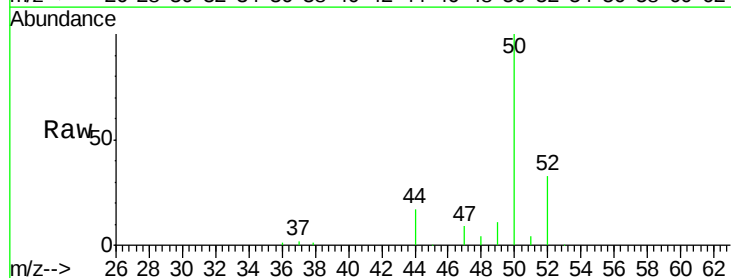
Acq: 04 Jan 2019 15:43

Tgt Ion: 50 Resp: 46105

Ion Ratio Lower Upper

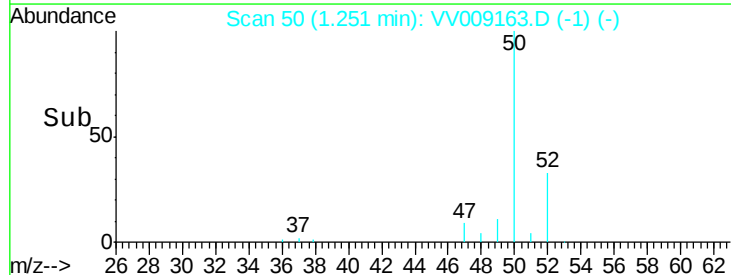
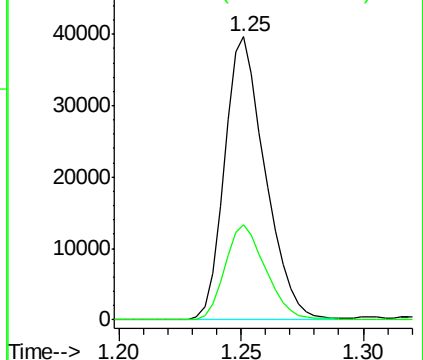
50 100

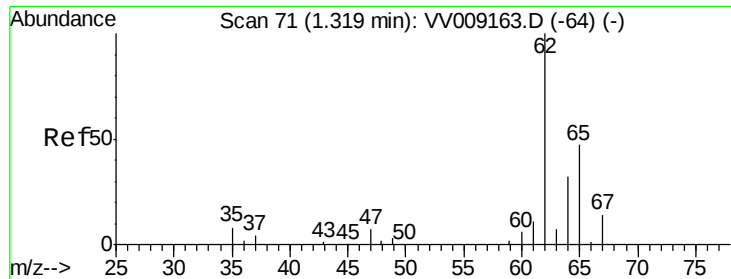
52 33.4 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 23.187 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

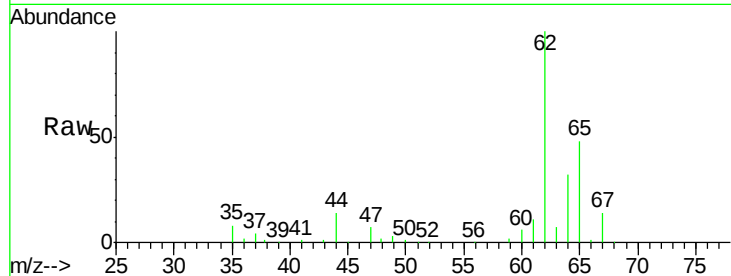
VSTD02573

Tot Ion: 62 Resp: 51208

Ion Ratio Lower Upper

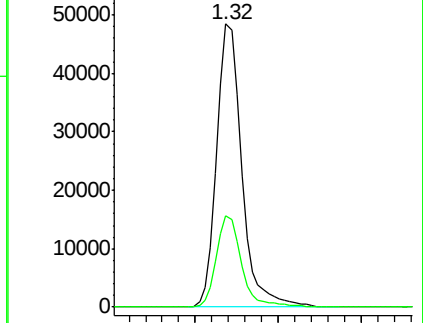
62 100

64 32.2 23.0 42.6

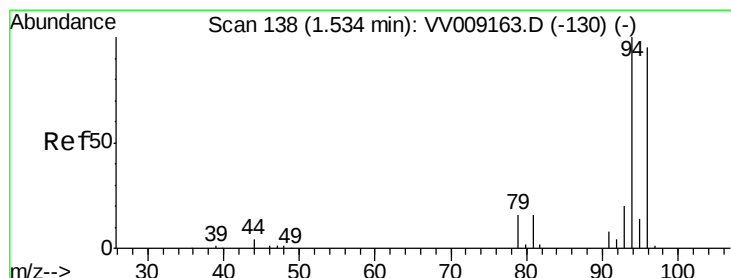
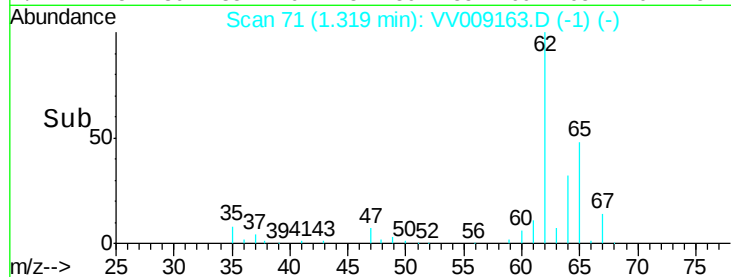


Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



Time-->



#6

Bromomethane

Concen: 23.037 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV009163.D

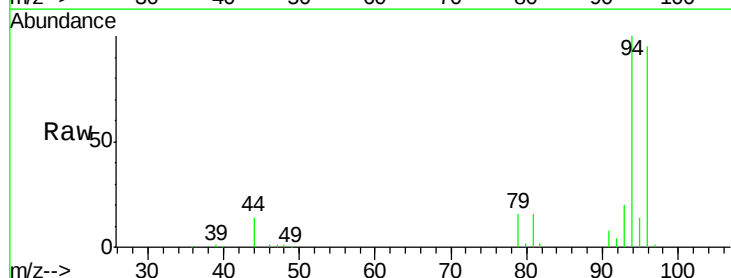
Acq: 04 Jan 2019 15:43

Tgt Ion: 94 Resp: 35837

Ion Ratio Lower Upper

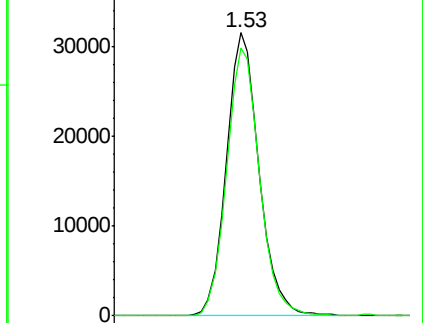
94 100

96 95.3 9.7 185.1

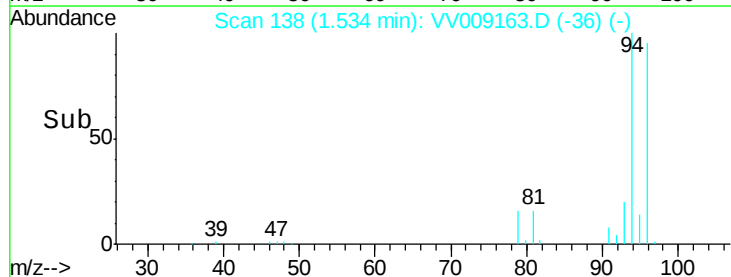


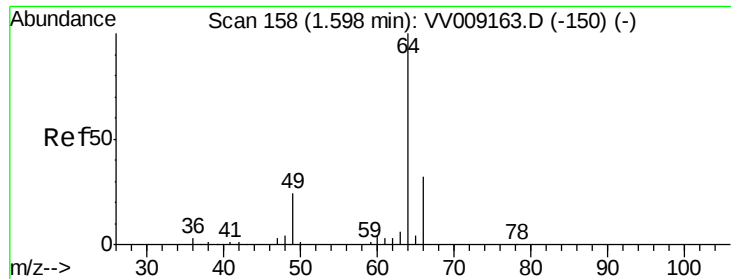
Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



Time-->

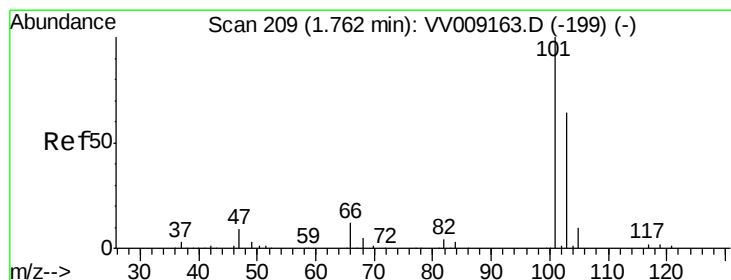
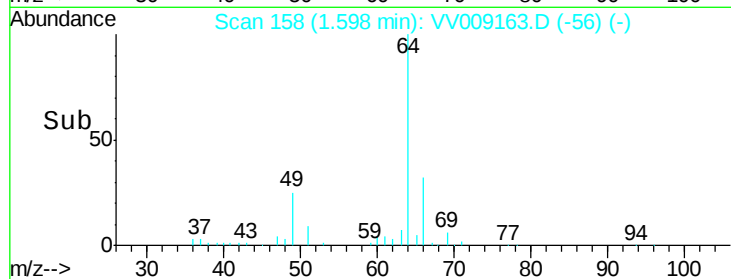
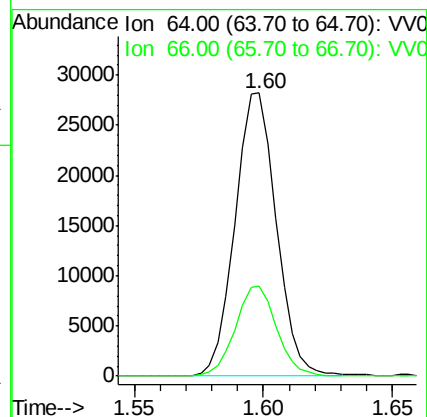
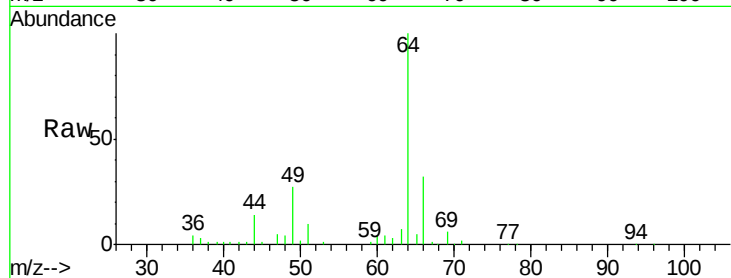




#8
 Chloroethane
 Concen: 23.126 ug/L
 RT: 1.60 min Scan# 158
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

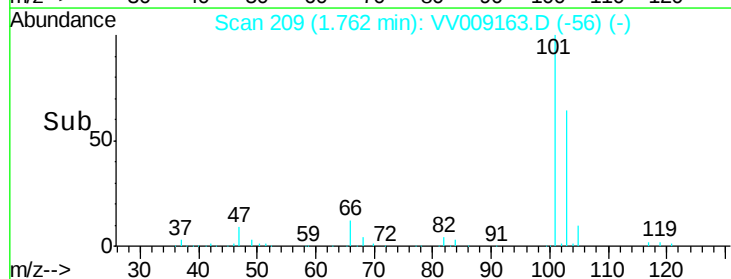
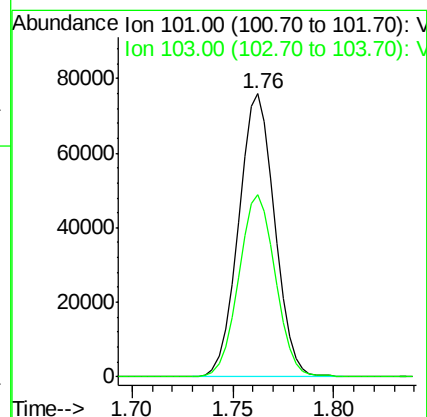
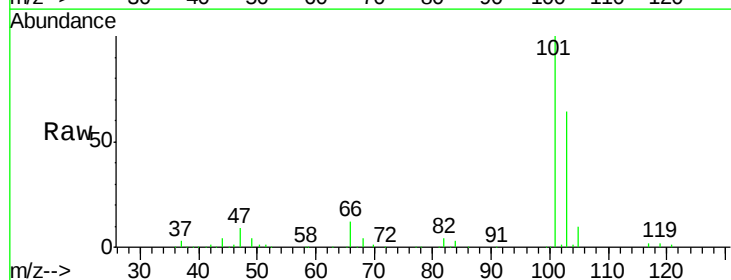
Instrument :
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 VSTD02573

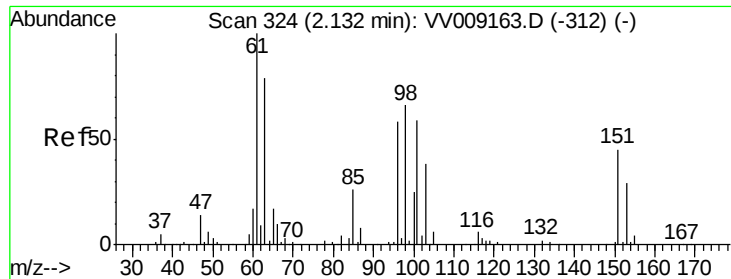
Tot Ion: 64 Resp: 31475
 Ion Ratio Lower Upper
 64 100
 66 32.0 23.2 43.0



#9
 Trichlorofluoromethane
 Concen: 23.557 ug/L
 RT: 1.76 min Scan# 209
 Delta R.T. -0.01 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Tgt Ion: 101 Resp: 95379
 Ion Ratio Lower Upper
 101 100
 103 65.6 46.0 85.4





#11

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

Concen: 23.734 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

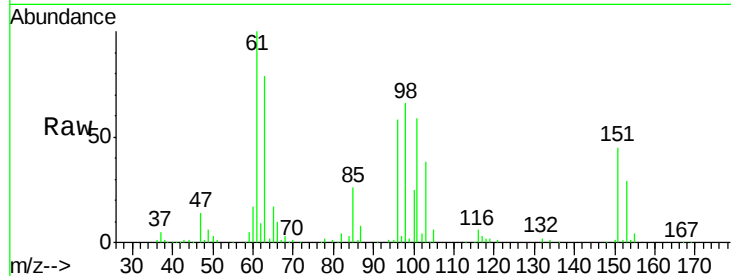
Tot Ion:101 Resp: 63999

Ion Ratio Lower Upper

101 100

85 43.9 34.6 52.0

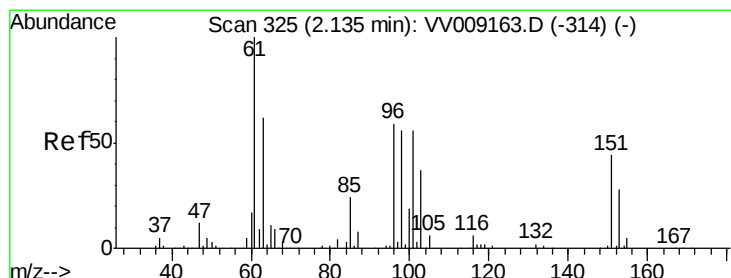
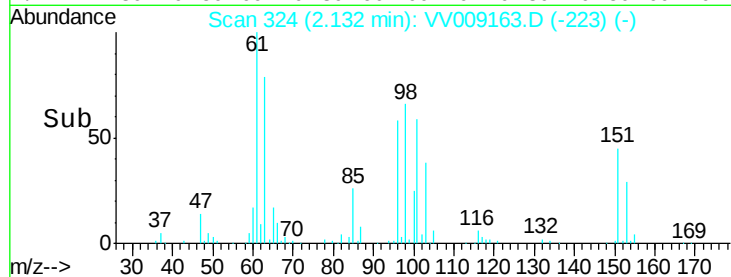
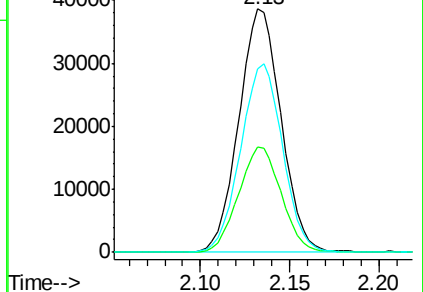
151 77.1 62.6 94.0



Abundance Ion 101.00 (100.70 to 101.70): VV009163.D (-223) (-)

Ion 85.00 (84.70 to 85.70): VV009163.D (-223) (-)

Ion 151.00 (150.70 to 151.70): VV009163.D (-223) (-)



#12

1,1-Dichloroethene

Concen: 23.999 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

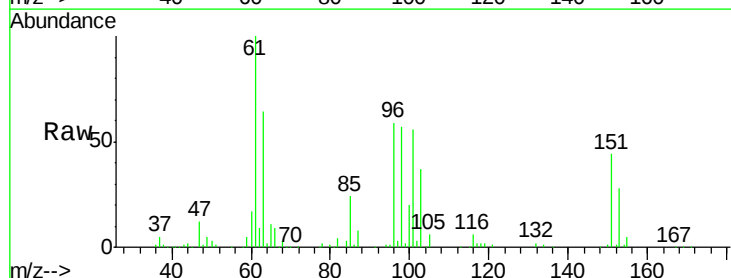
Tgt Ion: 96 Resp: 56123

Ion Ratio Lower Upper

96 100

61 169.3 117.0 217.4

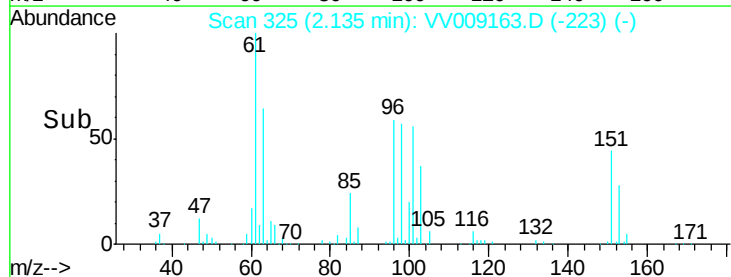
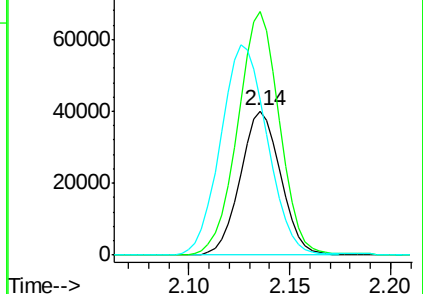
63 108.0 78.2 145.2

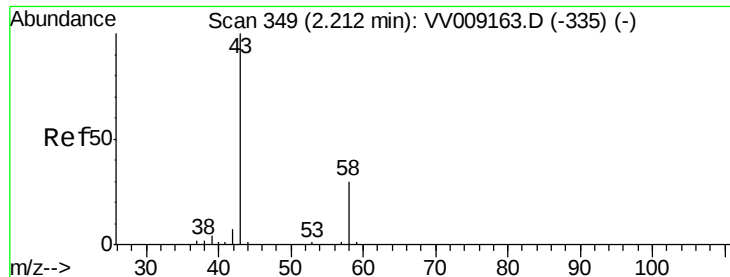


Abundance Ion 96.00 (95.70 to 96.70): VV009163.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009163.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009163.D (-223) (-)





#13

Acetone

Concen: 40.208 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.01 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

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ClientSampleId :

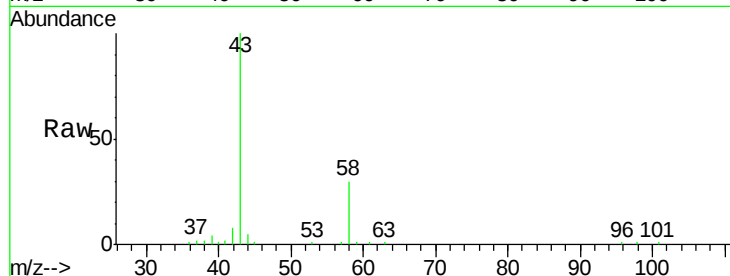
VSTD02573

Tot Ion: 43 Resp: 51949

Ion Ratio Lower Upper

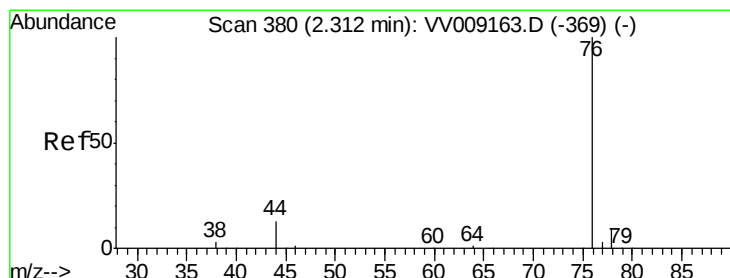
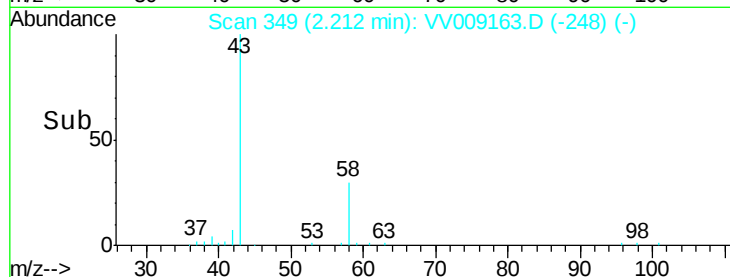
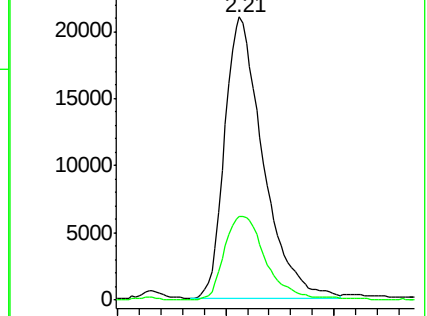
43 100

58 31.9 0.0 67.0



Abundance Ion 43.00 (42.70 to 43.70): VV009163.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VV009163.D (-335) (-)



#14

Carbon disulfide

Concen: 22.783 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.01 min

Lab File: VV009163.D

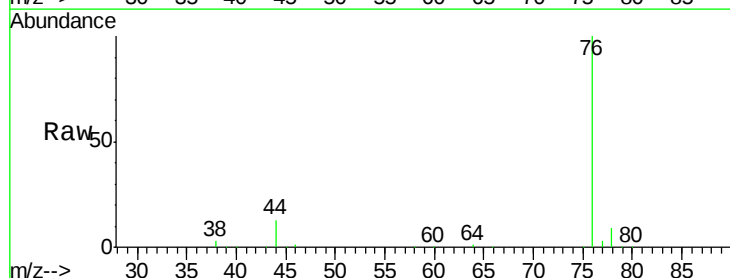
Acq: 04 Jan 2019 15:43

Tgt Ion: 76 Resp: 152240

Ion Ratio Lower Upper

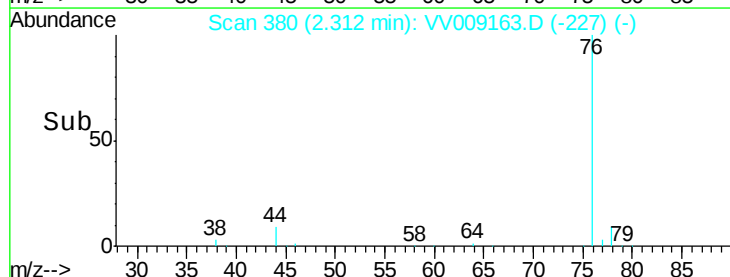
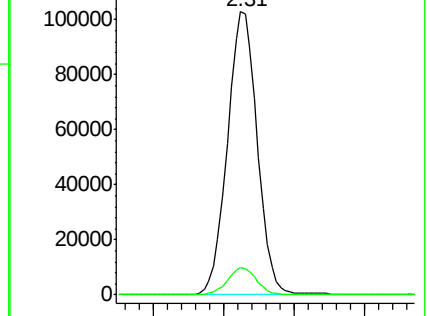
76 100

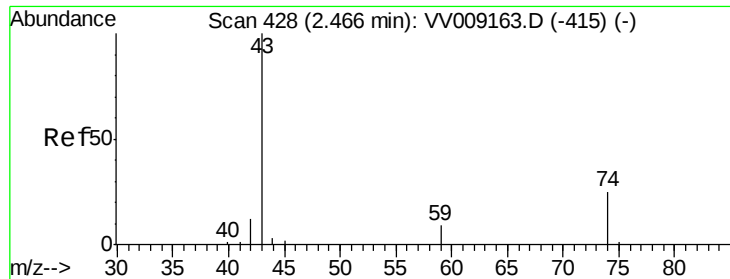
78 9.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009163.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009163.D (-369) (-)

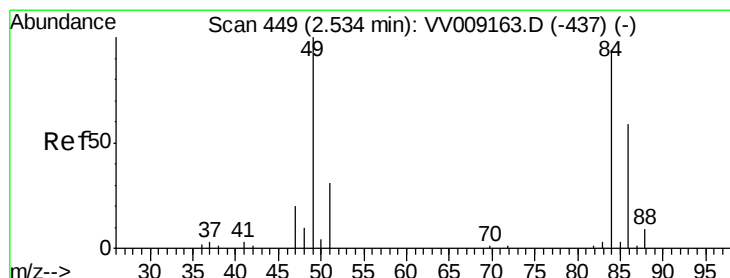
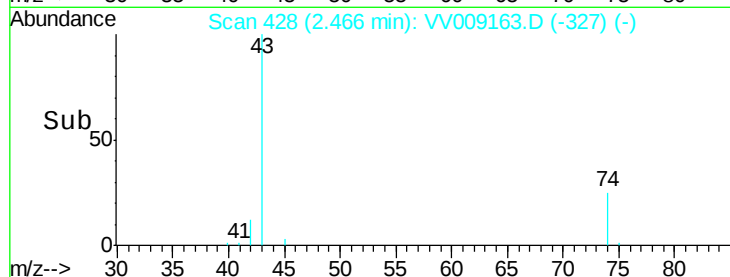
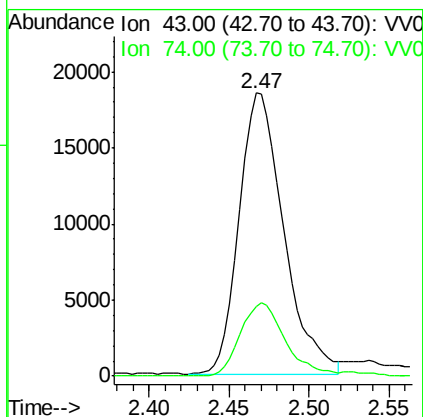
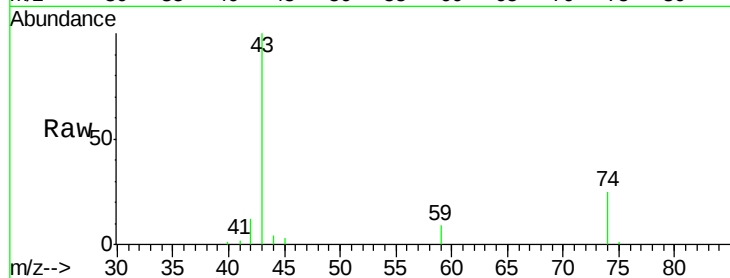




#15
Methyl Acetate
Concen: 22.004 ug/L
RT: 2.47 min Scan# 428
Delta R.T. -0.01 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

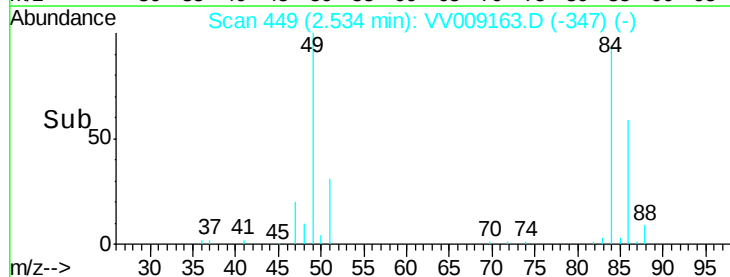
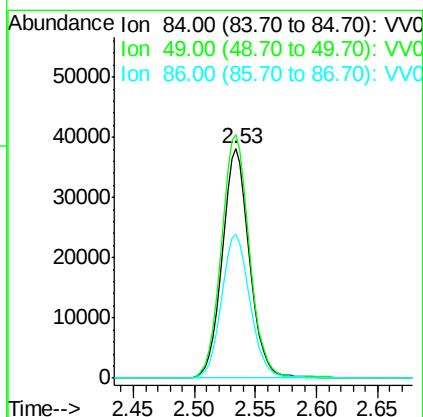
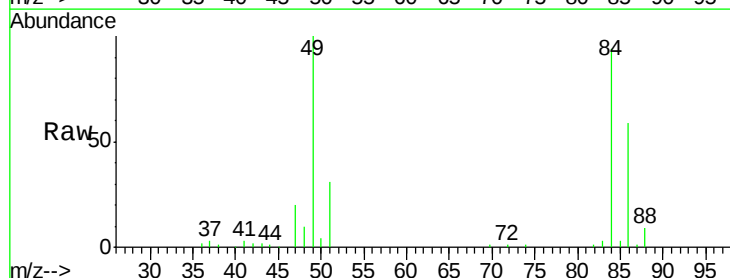
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

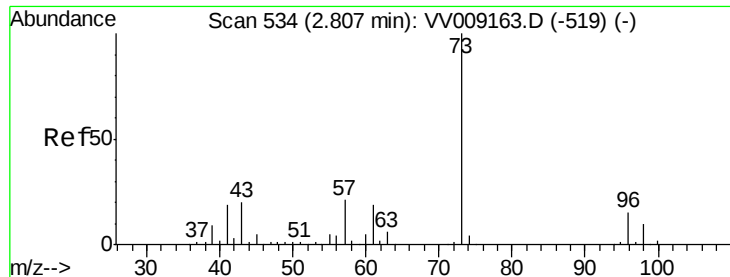
Tot Ion: 43 Resp: 35177
Ion Ratio Lower Upper
43 100
74 26.3 19.4 29.0



#16
Methylene chloride
Concen: 21.201 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

Tgt Ion: 84 Resp: 60006
Ion Ratio Lower Upper
84 100
49 106.1 77.6 144.2
86 62.8 47.4 88.0

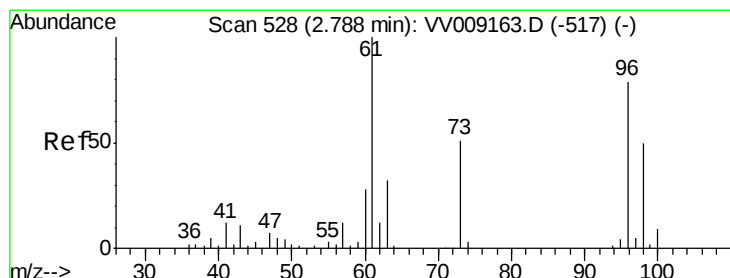
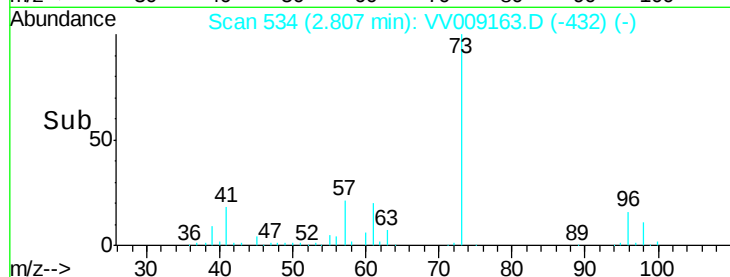
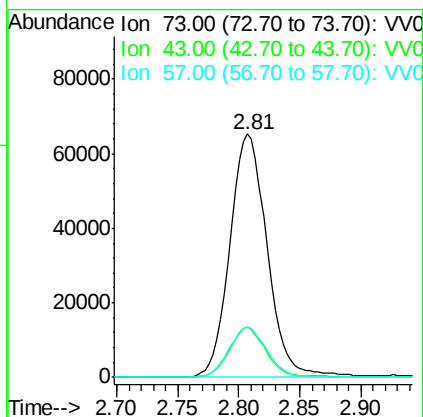
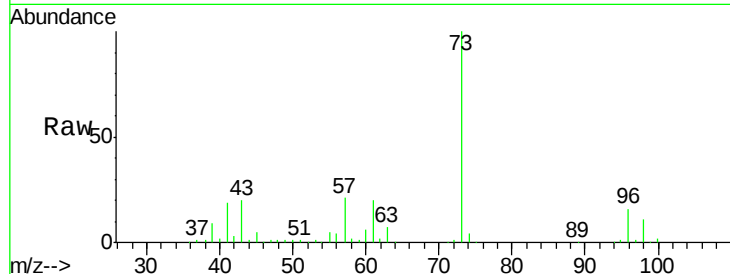




#17
Methvl tert-butvl Ether
Concen: 24.209 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

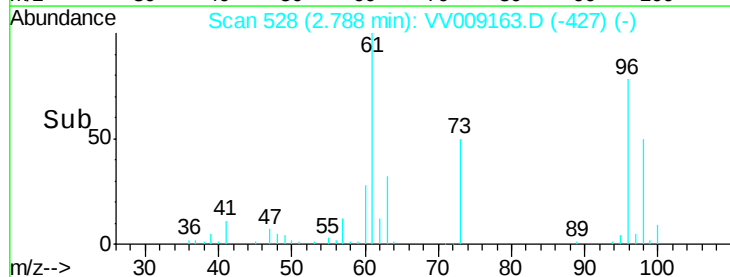
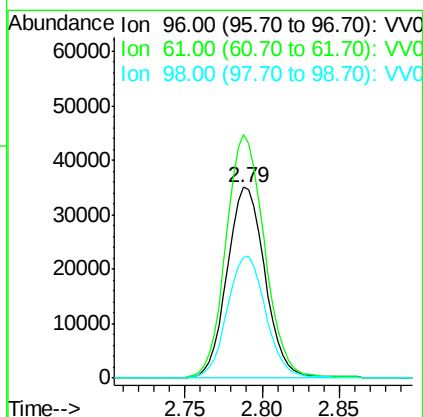
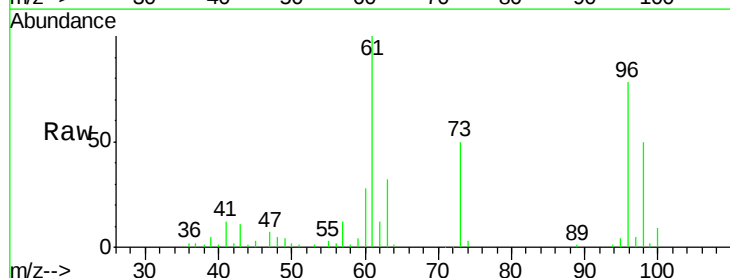
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

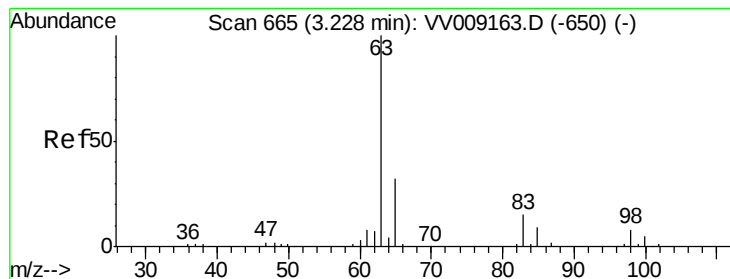
Tot Ion: 73 Resp: 138670
Ion Ratio Lower Upper
73 100
43 19.5 15.4 23.2
57 21.0 16.2 24.2



#18
trans-1,2-Dichloroethene
Concen: 24.078 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.01 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

Tgt Ion: 96 Resp: 59674
Ion Ratio Lower Upper
96 100
61 127.4 88.8 164.8
98 63.5 43.5 80.9





#19

1,1-Dichloroethane

Concen: 24.435 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

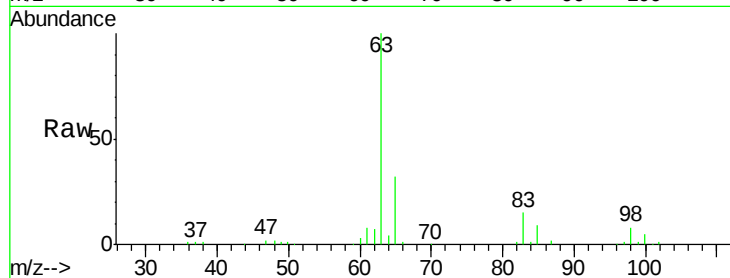
Tot Ion: 63 Resp: 100562

Ion Ratio Lower Upper

63 100

65 32.5 22.6 42.0

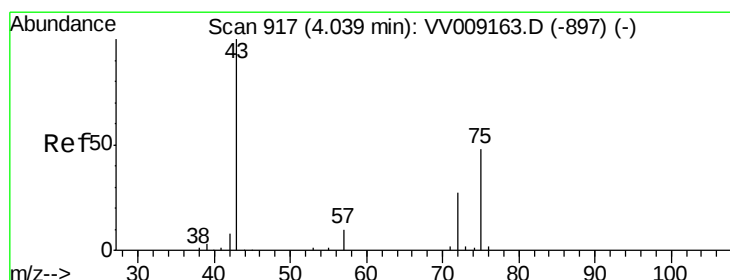
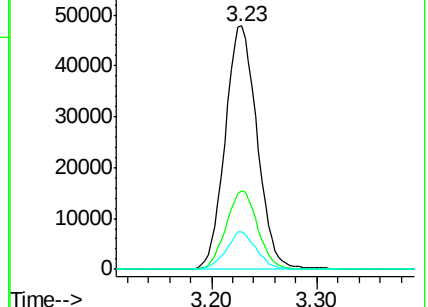
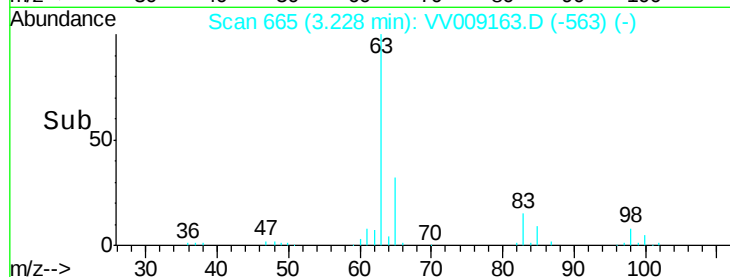
83 15.2 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VV009163.D (-650) (-)

Ion 65.00 (64.70 to 65.70): VV009163.D (-650) (-)

Ion 83.00 (82.70 to 83.70): VV009163.D (-650) (-)



#21

2-Butanone

Concen: 45.392 ug/L

RT: 4.04 min Scan# 917

Delta R.T. -0.01 min

Lab File: VV009163.D

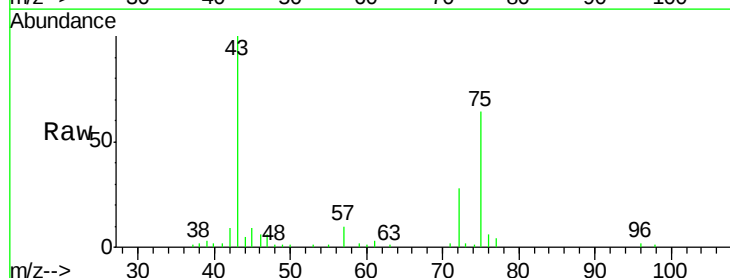
Acq: 04 Jan 2019 15:43

Tgt Ion: 43 Resp: 51296

Ion Ratio Lower Upper

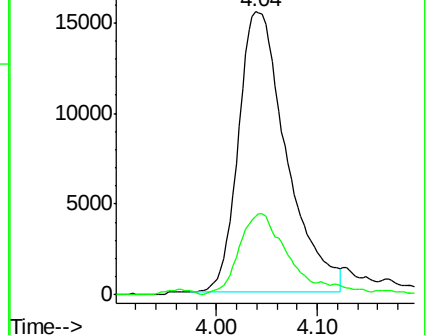
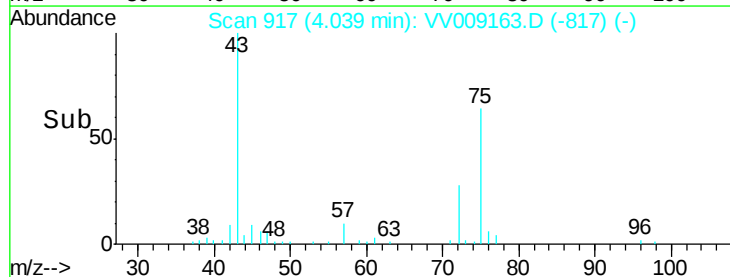
43 100

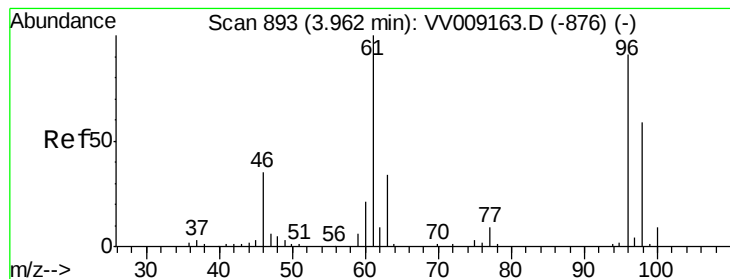
72 27.6 0.1 0.1#



Abundance Ion 43.00 (42.70 to 43.70): VV009163.D (-897) (-)

Ion 72.00 (71.70 to 72.70): VV009163.D (-897) (-)



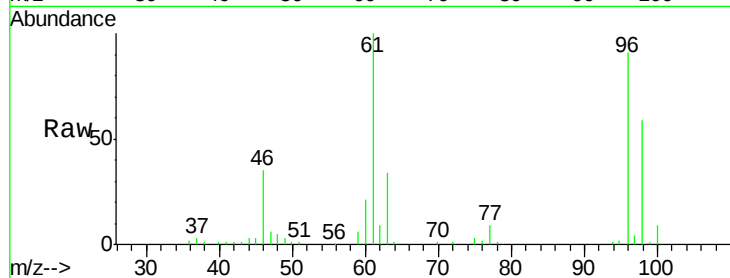


#22

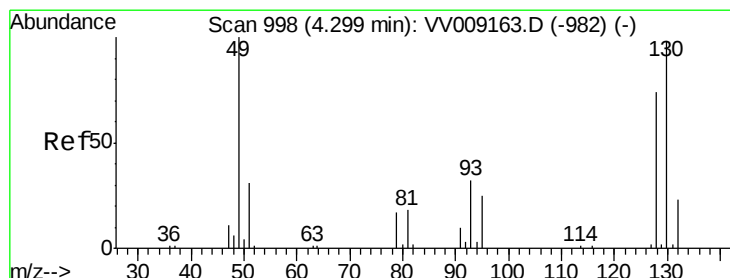
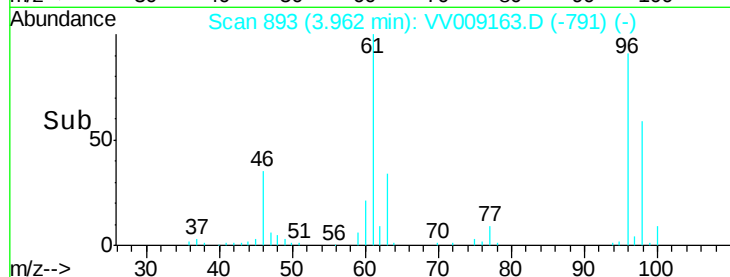
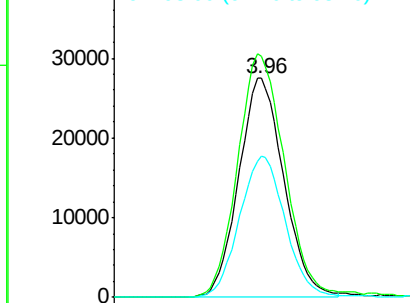
cis-1,2-Dichloroethene
 Concen: 24.551 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

Tot Ion: 96 Resp: 65045
 Ion Ratio Lower Upper
 96 100
 61 110.4 83.2 154.6
 98 64.7 45.8 85.2



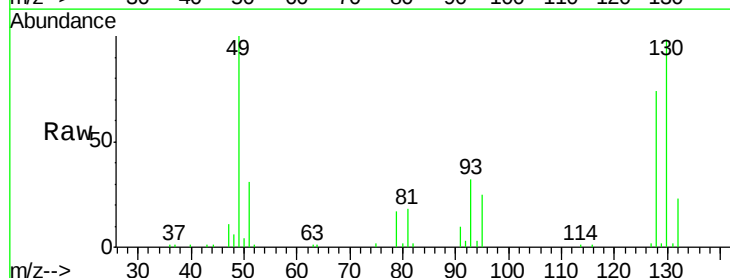
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



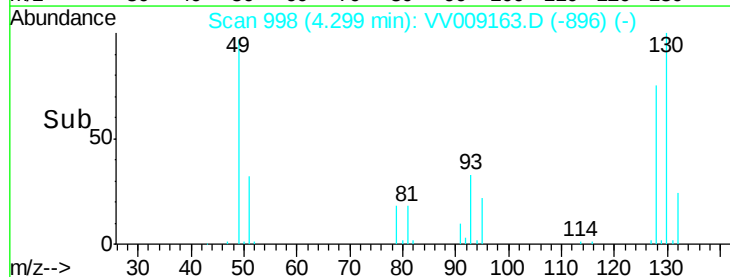
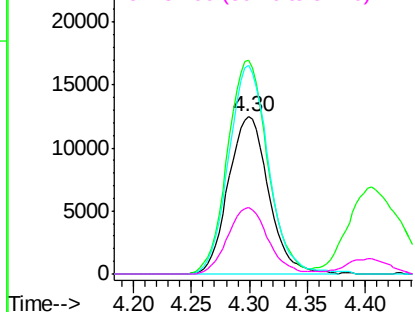
#23

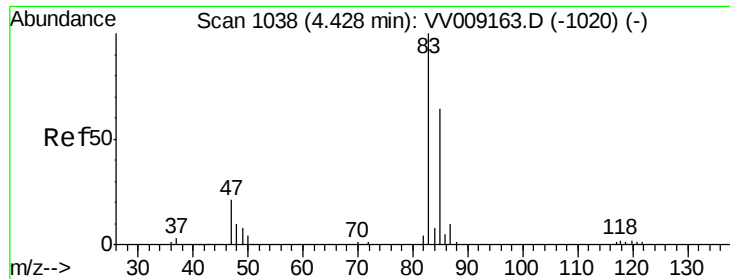
Bromochloromethane
 Concen: 24.270 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Tgt Ion: 128 Resp: 30252
 Ion Ratio Lower Upper
 128 100
 49 135.9 89.9 167.0
 130 132.7 87.8 163.2
 51 42.0 33.8 50.6



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

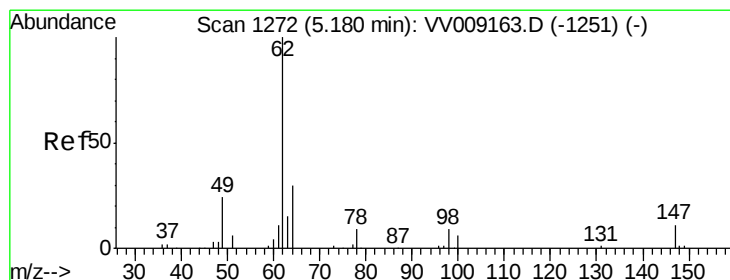
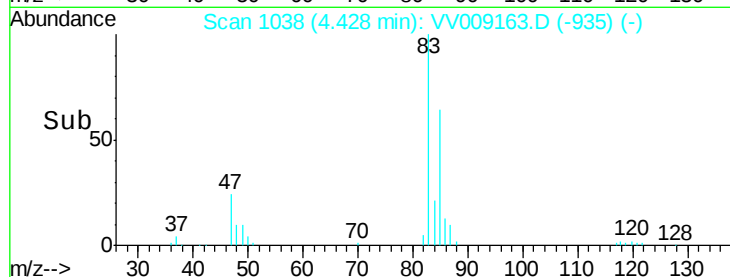
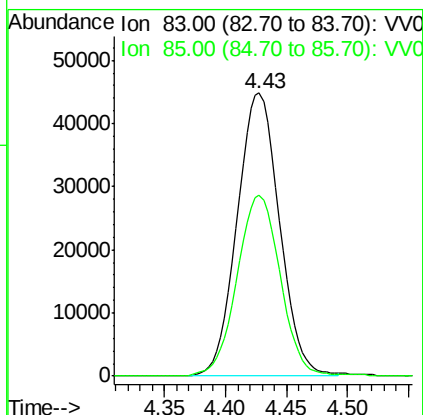
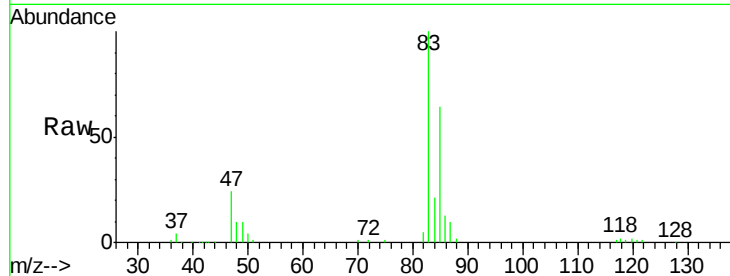




#25
Chloroform
Concen: 24.587 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

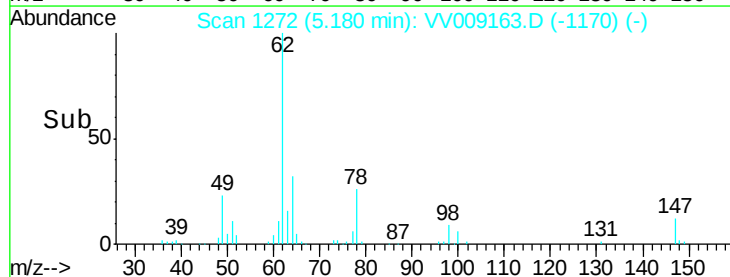
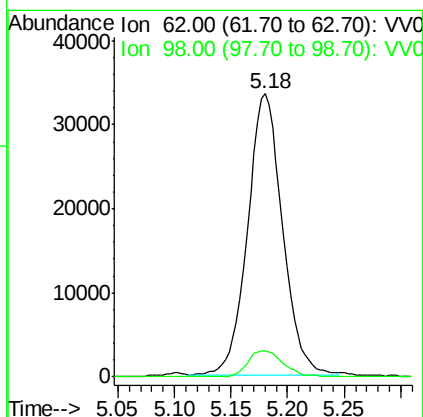
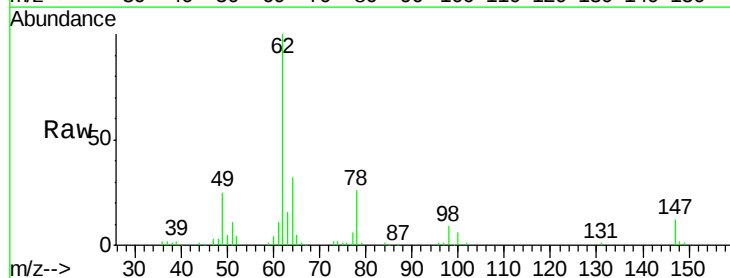
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

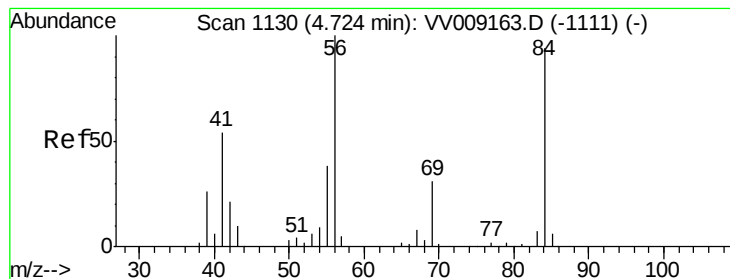
Tot Ion: 83 Resp: 107753
Ion Ratio Lower Upper
83 100
85 65.1 45.3 84.1



#27
1,2-Dichloroethane
Concen: 24.336 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

Tgt Ion: 62 Resp: 71640
Ion Ratio Lower Upper
62 100
98 9.1 8.1 12.1





#30

Cyclohexane

Concen: 23.795 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

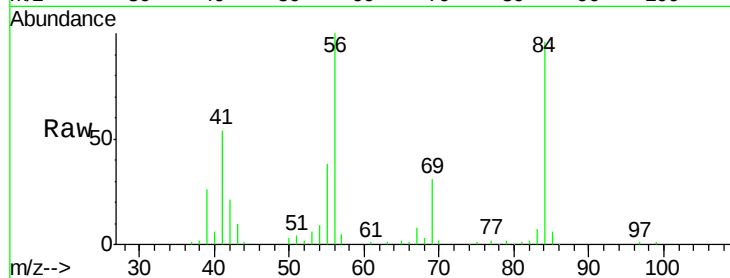
Tot Ion: 56 Resp: 90257

Ion Ratio Lower Upper

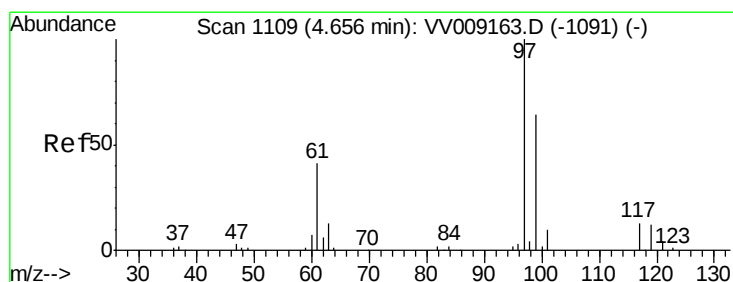
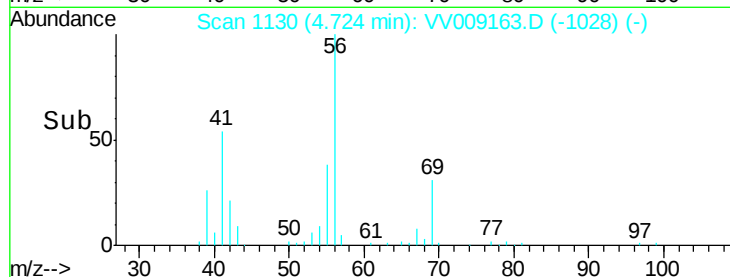
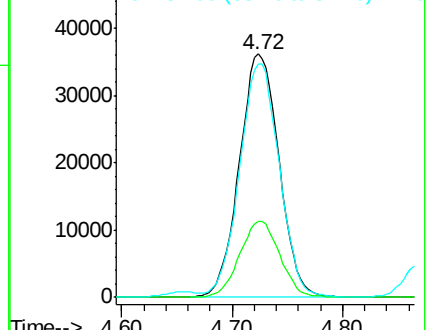
56 100

69 31.5 26.0 39.0

84 95.6 77.0 115.4



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 24.515 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

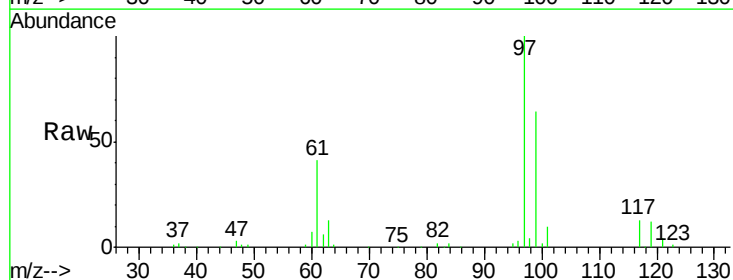
Tgt Ion: 97 Resp: 101980

Ion Ratio Lower Upper

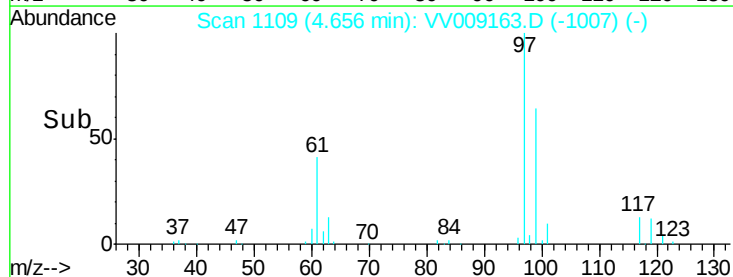
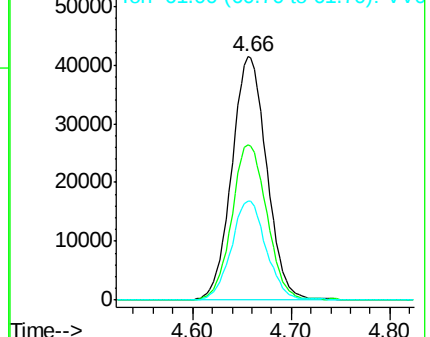
97 100

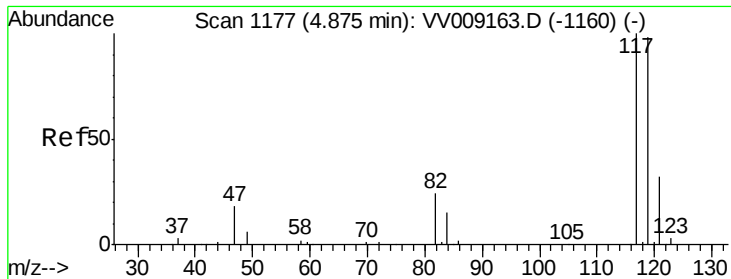
99 64.0 51.2 76.8

61 40.5 31.8 47.6



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0



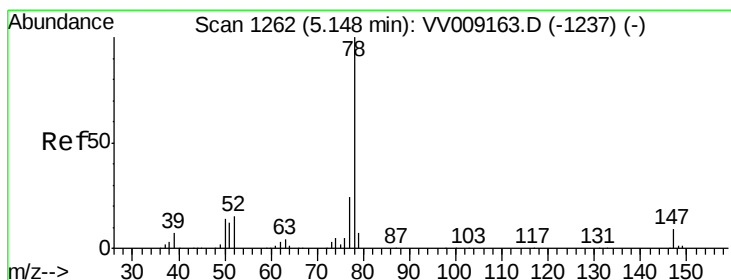
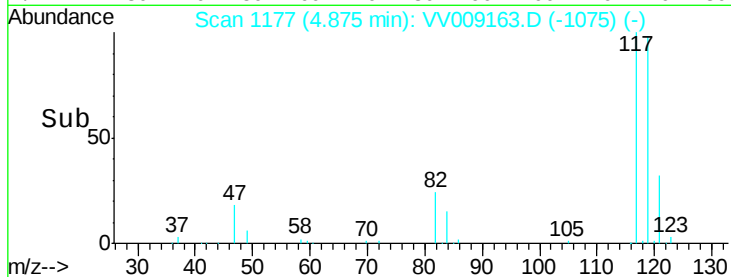
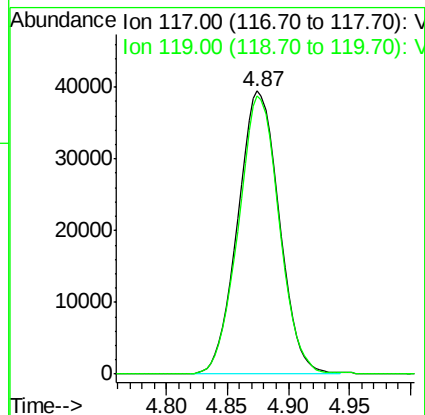
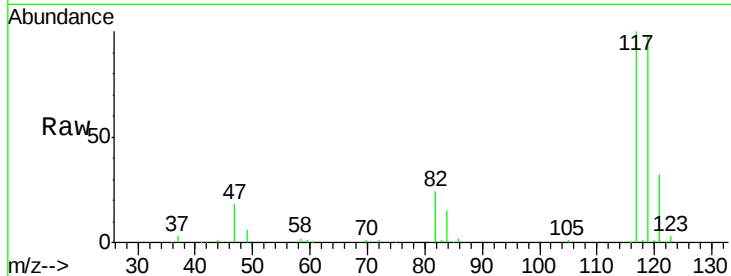


#32

Carbon tetrachloride
Concen: 24.326 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

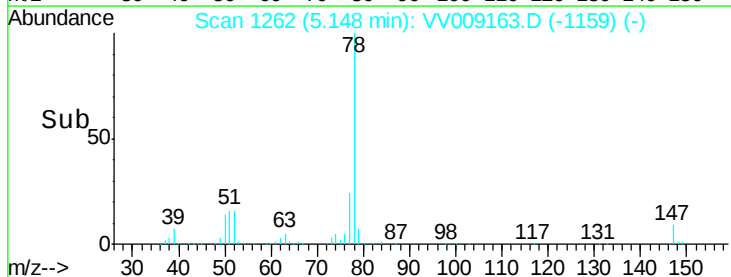
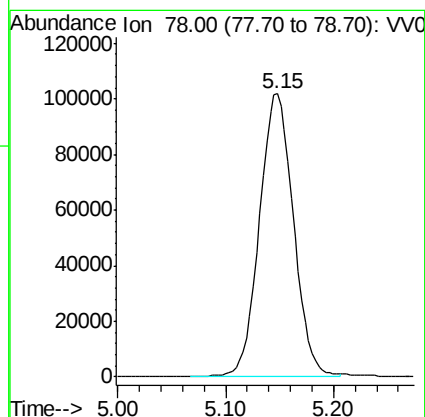
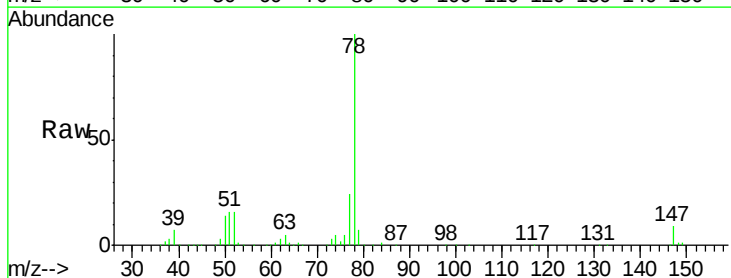
Tot Ion:117 Resp: 92624
Ion Ratio Lower Upper
117 100
119 96.7 76.6 115.0

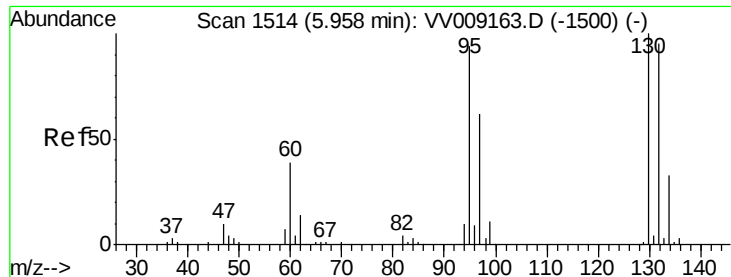


#34

Benzene
Concen: 24.242 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

Tgt Ion: 78 Resp: 222978

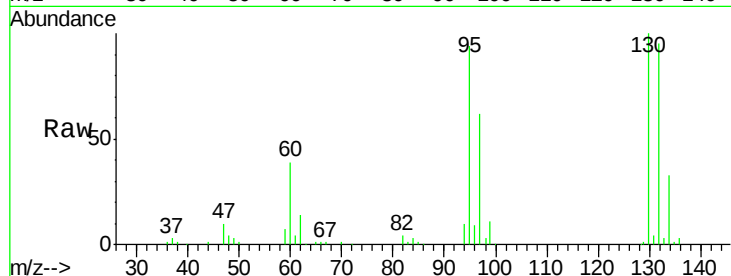




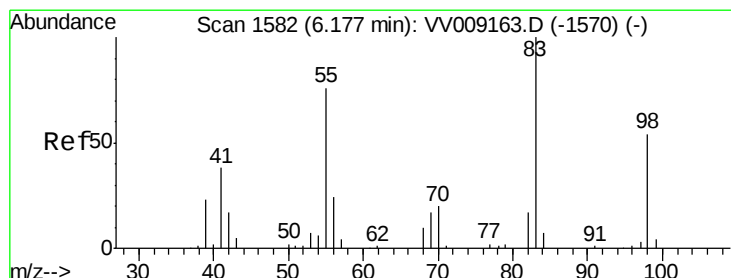
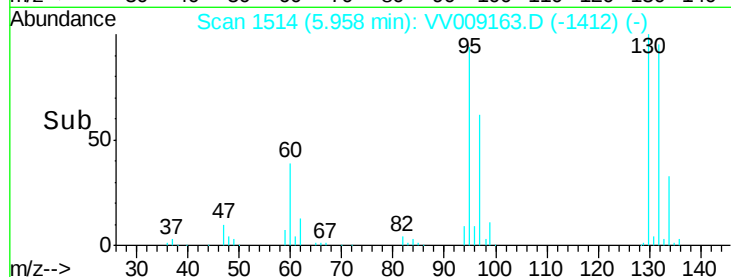
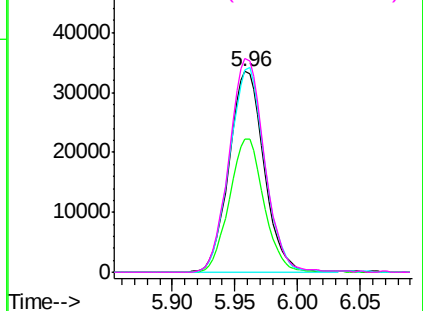
#35
 Trichloroethene
 Concen: 24.558 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02573

Tot Ion: 95 Resp: 65077
 Ion Ratio Lower Upper
 95 100
 97 65.3 46.2 85.8
 132 102.2 73.9 137.3
 130 107.3 77.0 143.0

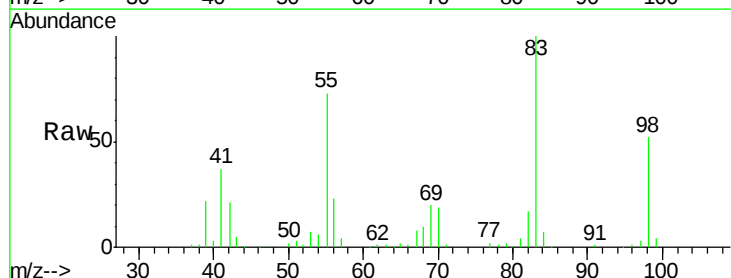


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

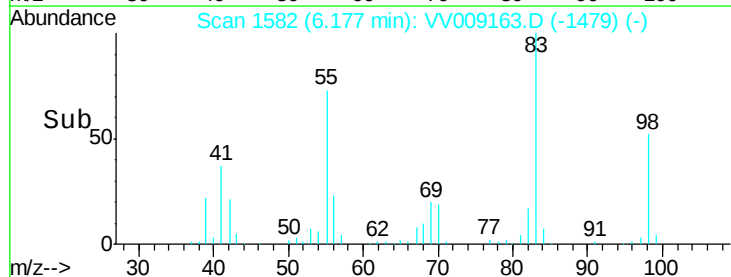
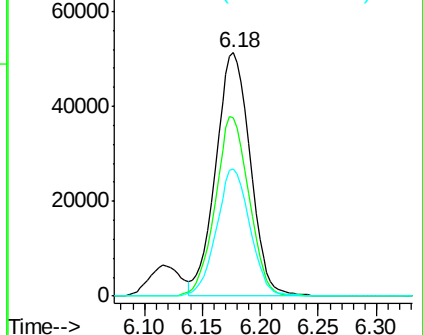


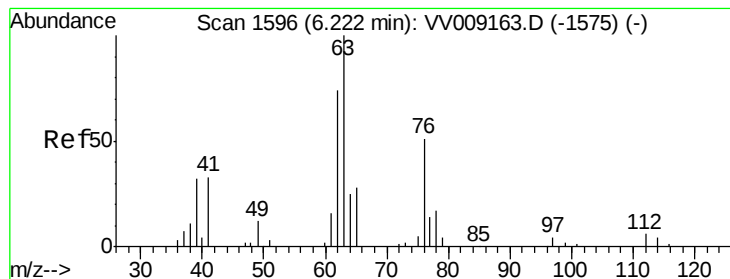
#36
 Methylcyclohexane
 Concen: 23.943 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Tgt Ion: 83 Resp: 106012
 Ion Ratio Lower Upper
 83 100
 55 72.2 58.5 87.7
 98 51.0 41.4 62.0



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 24.860 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

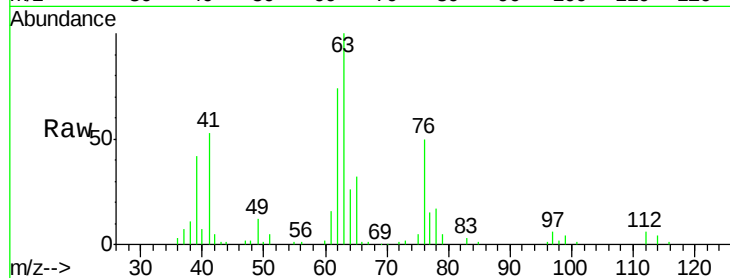
VSTD02573

Tot Ion: 63 Resp: 55114

Ion Ratio Lower Upper

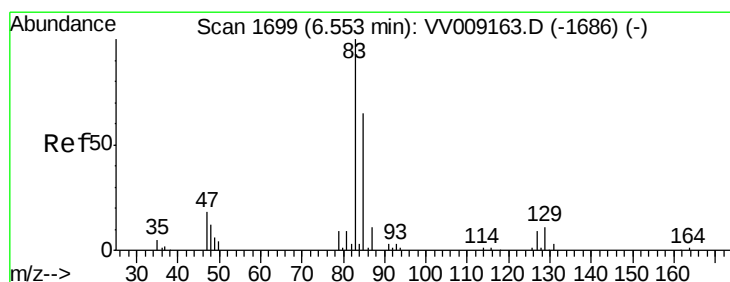
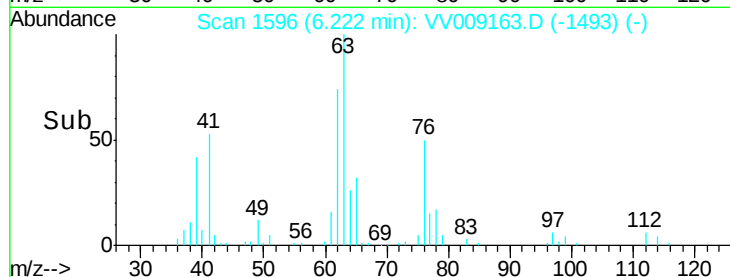
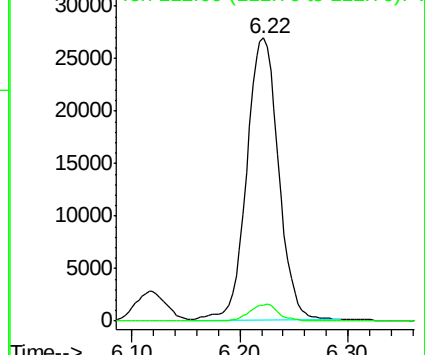
63 100

112 5.4 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 24.883 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

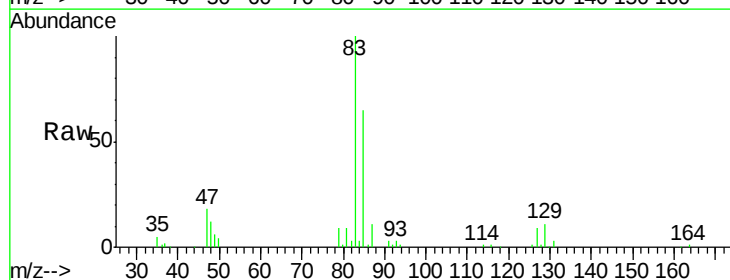
Tgt Ion: 83 Resp: 75616

Ion Ratio Lower Upper

83 100

85 64.8 45.3 84.1

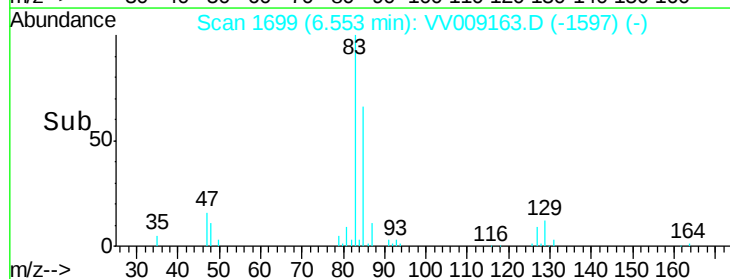
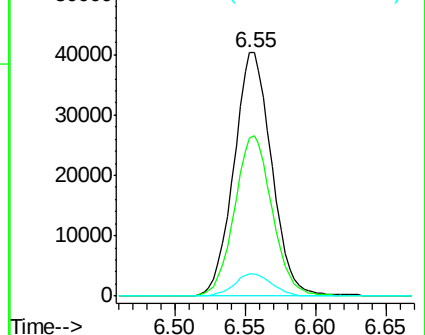
127 9.3 7.8 11.6

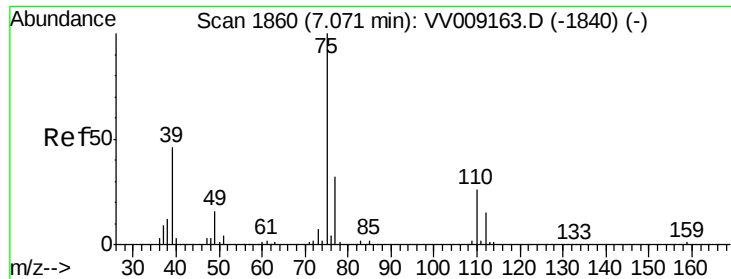


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 127.00 (126.70 to 127.70): V

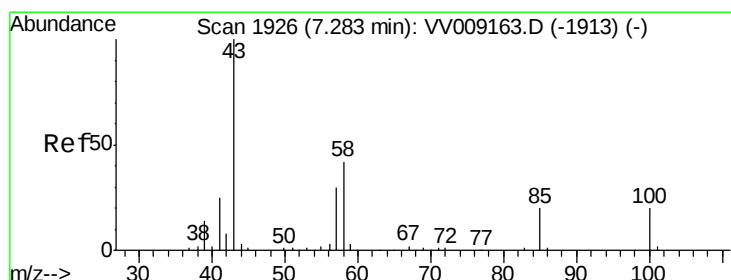
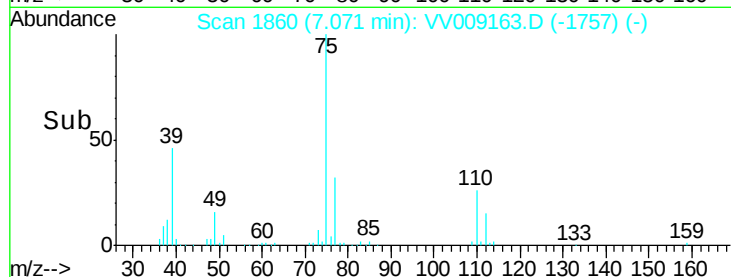
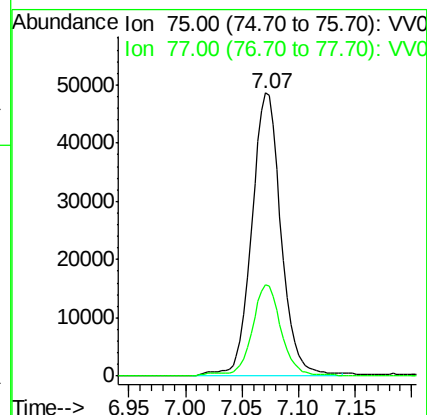
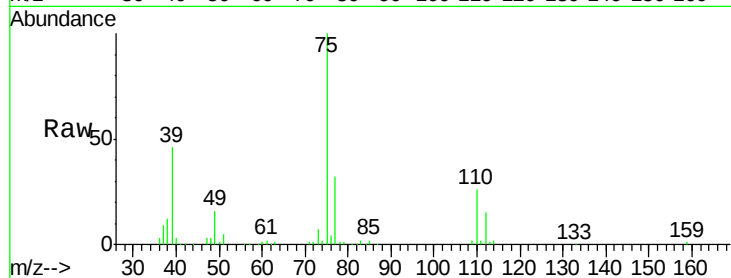




#42
 cis-1,3-Dichloropropene
 Concen: 25.062 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

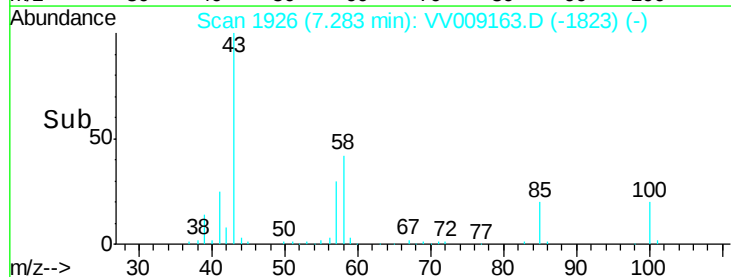
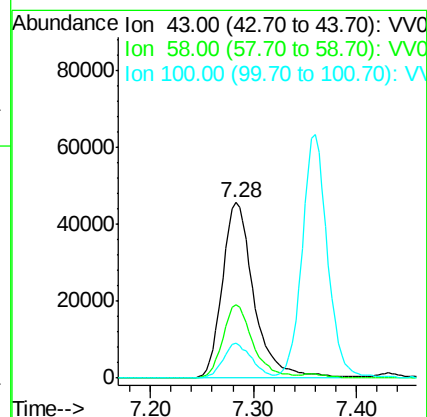
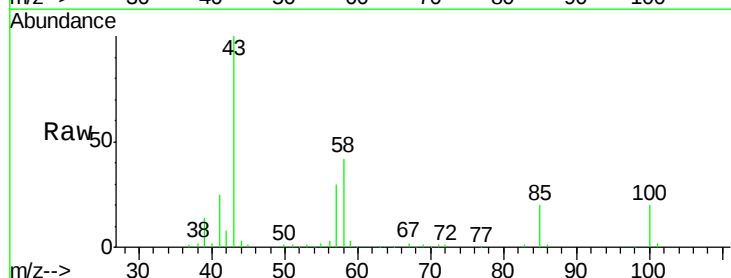
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02573

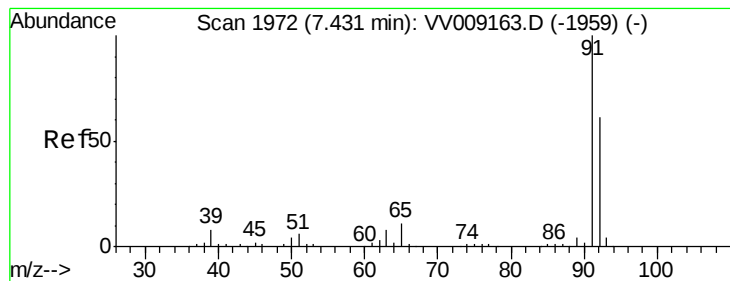
Tot Ion: 75 Resp: 88047
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.8 42.4



#43
 4-Methyl-2-pentanone
 Concen: 46.165 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Tgt Ion: 43 Resp: 97556
 Ion Ratio Lower Upper
 43 100
 58 39.8 33.4 50.2
 100 18.1 15.2 22.8





#44

Toluene

Concen: 24.649 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

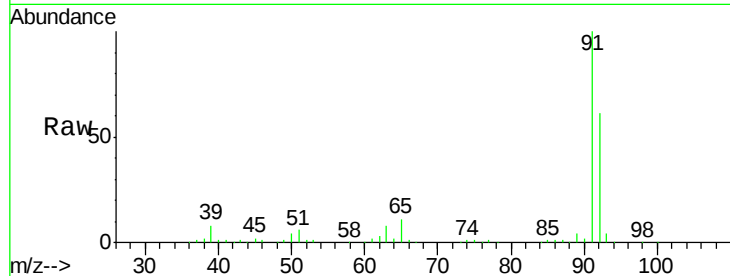
VSTD02573

Tot Ion: 91 Resp: 244438

Ion Ratio Lower Upper

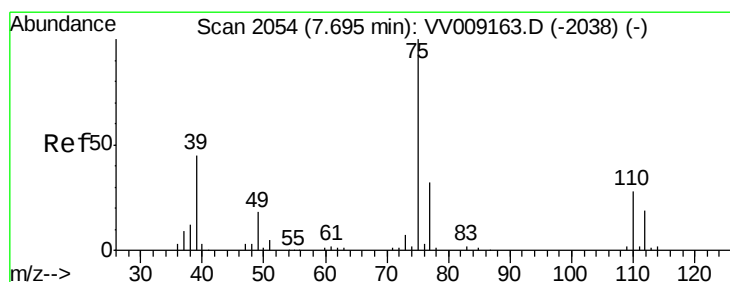
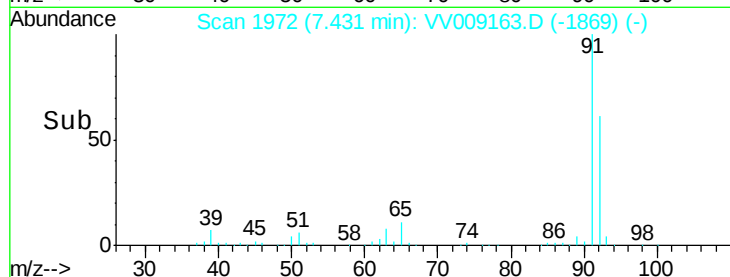
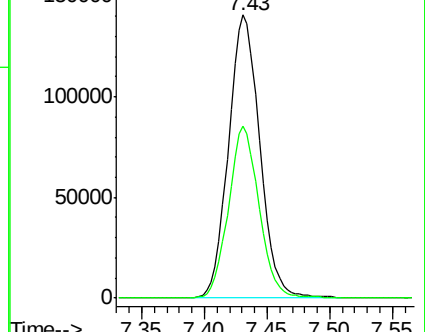
91 100

92 60.9 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV009163.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009163.D (-1959) (-)



#45

trans-1,3-Dichloropropene

Concen: 25.015 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009163.D

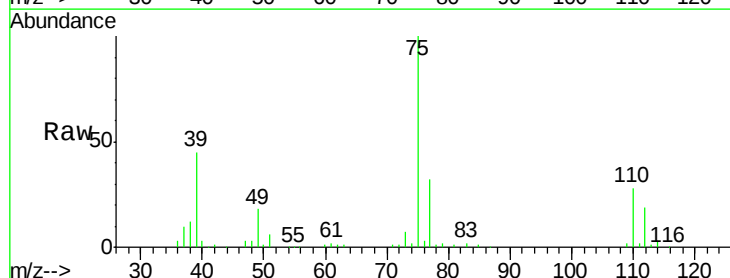
Acq: 04 Jan 2019 15:43

Tgt Ion: 75 Resp: 76940

Ion Ratio Lower Upper

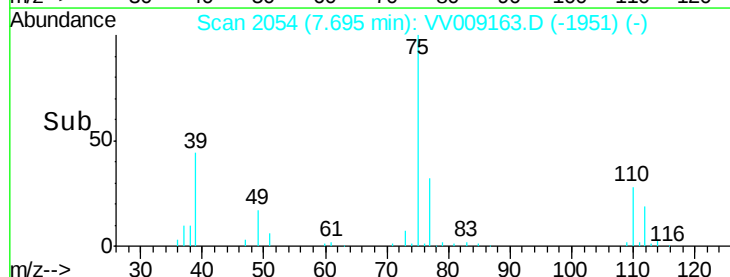
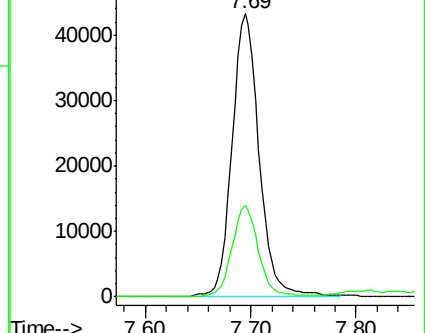
75 100

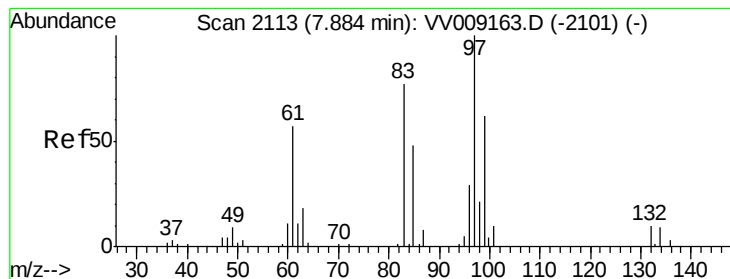
77 32.3 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV009163.D (-2038) (-)

Ion 77.00 (76.70 to 77.70): VV009163.D (-2038) (-)





#46

1,1,2-Trichloroethane

Concen: 25.546 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

Tot Ion: 97 Resp: 50056

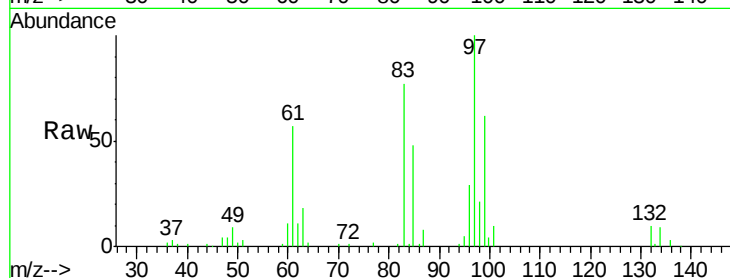
Ion Ratio Lower Upper

97 100

83 77.2 56.0 104.0

85 47.6 36.5 67.9

99 62.5 43.5 80.9

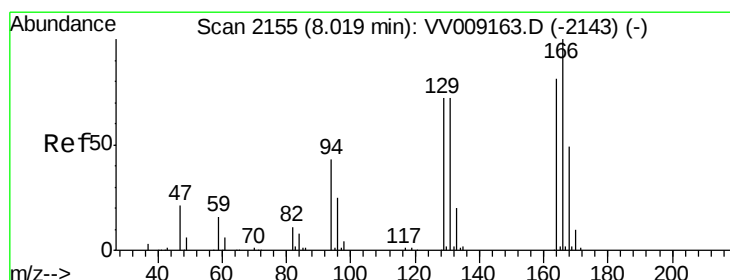
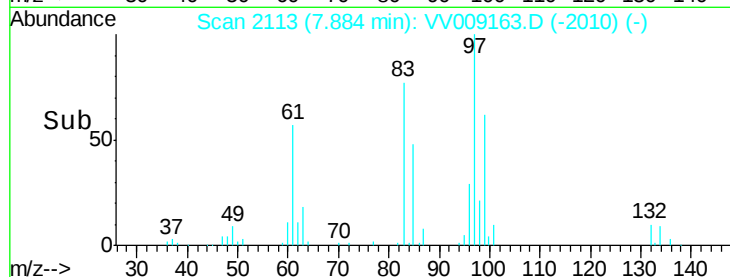
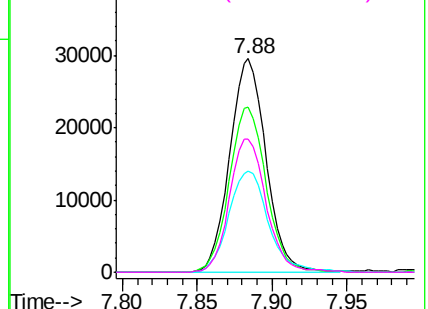


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 24.370 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Tgt Ion: 164 Resp: 55949

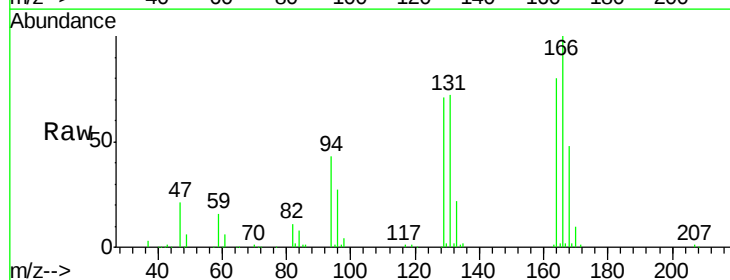
Ion Ratio Lower Upper

164 100

129 88.8 63.5 117.9

131 89.4 63.2 117.4

166 124.3 88.0 163.4

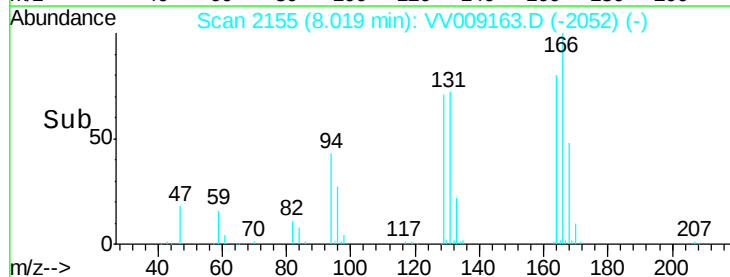
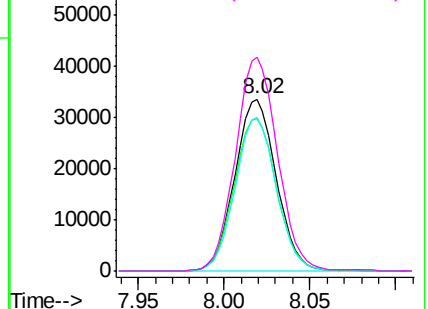


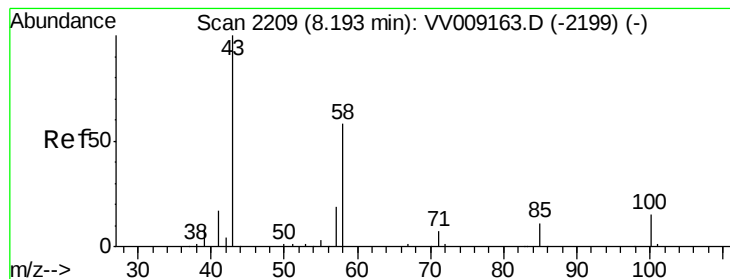
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 46.244 ug/L

RT: 8.19 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

Tot Ion: 43 Resp: 71920

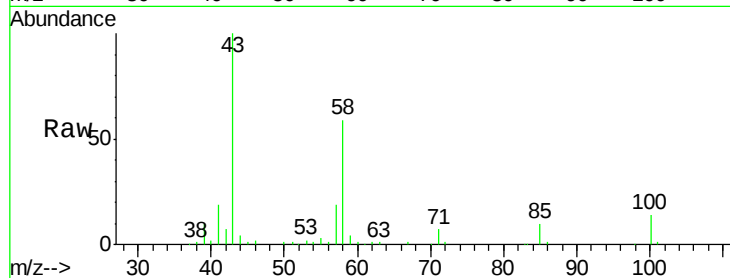
Ion Ratio Lower Upper

43 100

58 56.7 46.7 70.1

57 19.2 15.5 23.3

100 15.0 12.8 19.2

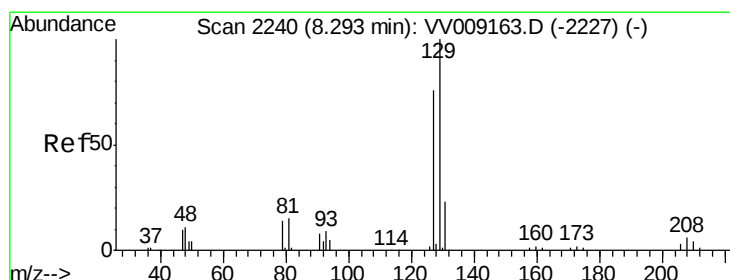
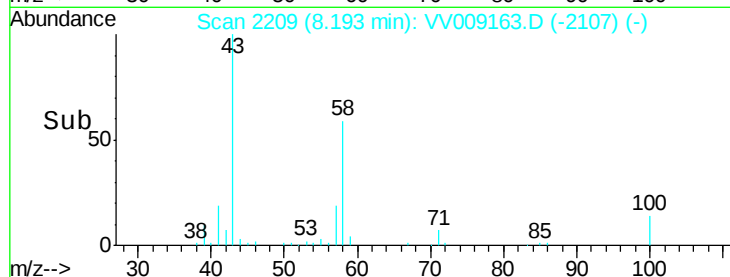
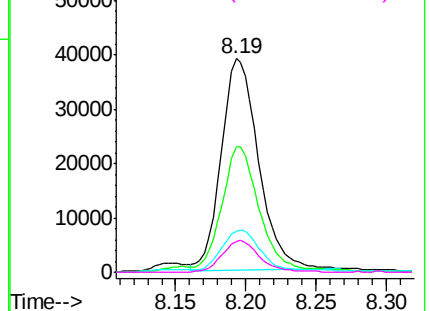


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0



#50

Dibromochloromethane

Concen: 25.393 ug/L

RT: 8.29 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VV009163.D

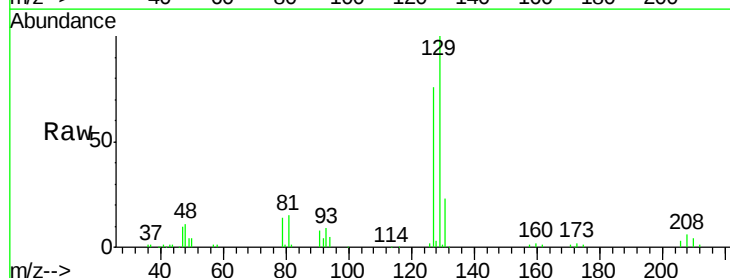
Acq: 04 Jan 2019 15:43

Tgt Ion: 129 Resp: 61125

Ion Ratio Lower Upper

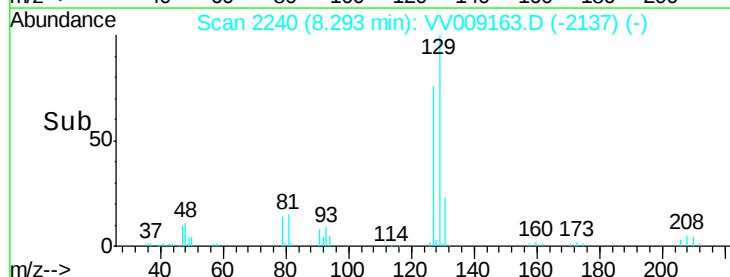
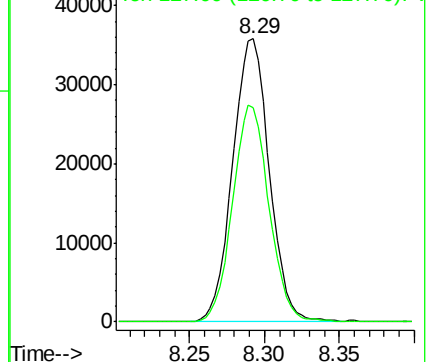
129 100

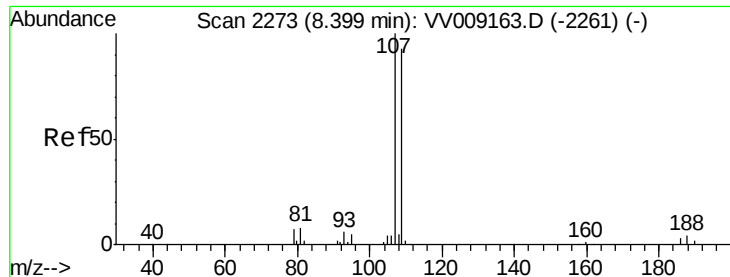
127 75.8 53.1 98.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

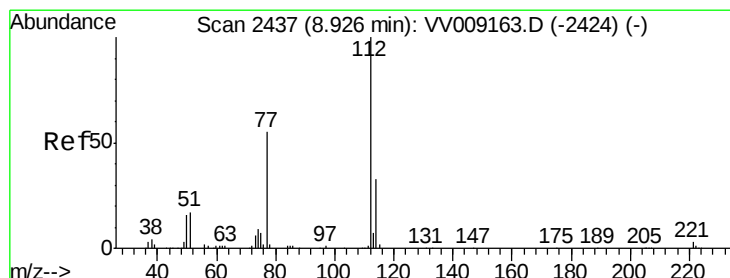
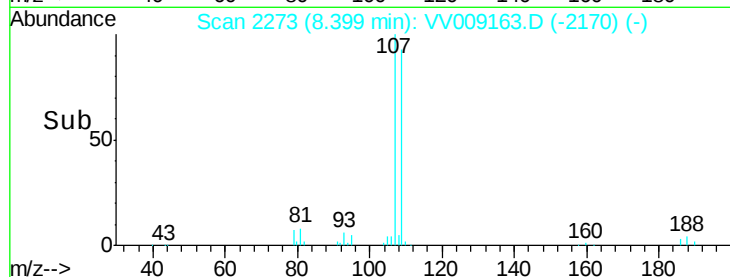
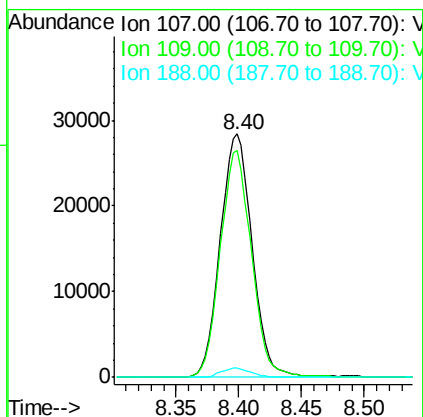
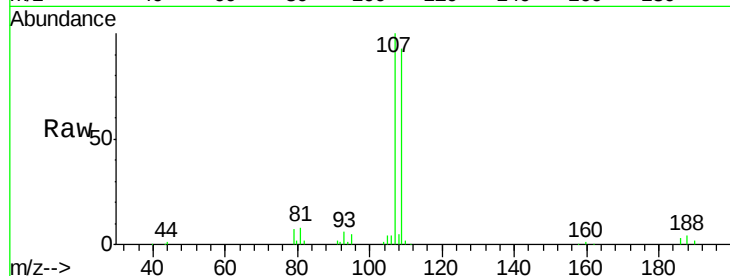




#51
1,2-Dibromoethane
Concen: 24.434 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

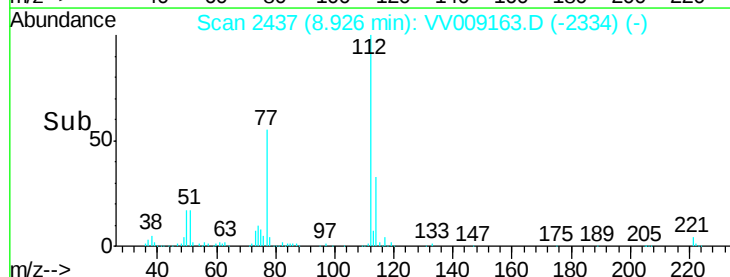
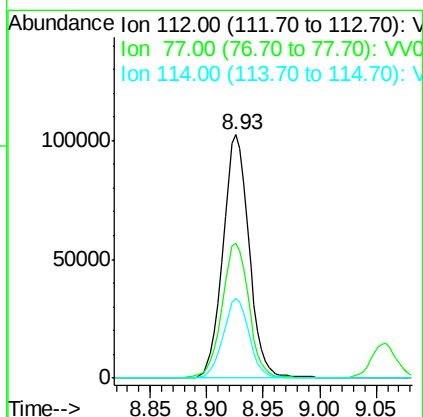
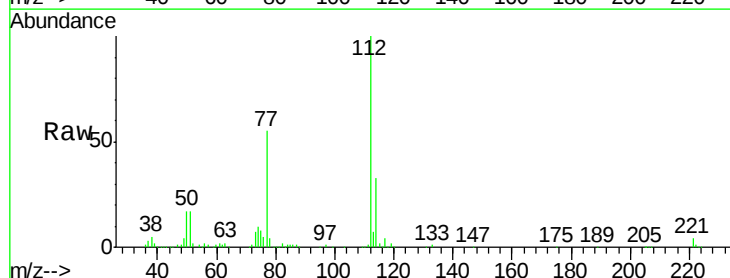
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

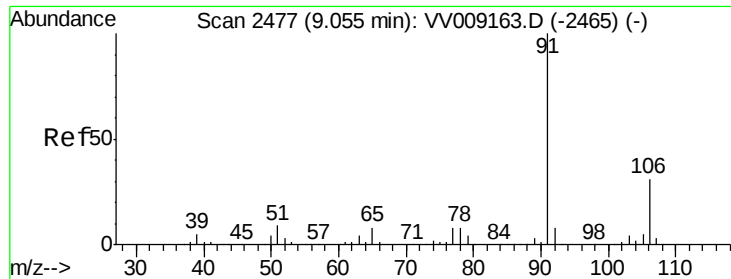
Tot Ion:107 Resp: 50064
Ion Ratio Lower Upper
107 100
109 93.1 63.6 118.0
188 3.7 3.3 4.9



#52
Chlorobenzene
Concen: 24.279 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. -0.00 min
Lab File: VV009163.D
Acq: 04 Jan 2019 15:43

Tgt Ion:112 Resp: 165199
Ion Ratio Lower Upper
112 100
77 55.4 44.6 66.8
114 32.6 22.5 41.9





#53

Ethylbenzene

Concen: 24.914 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

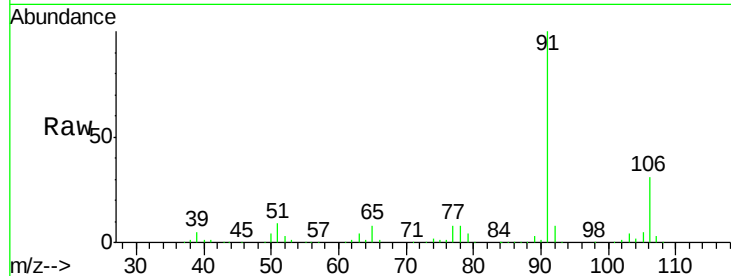
VSTD02573

Tot Ion: 91 Resp: 279412

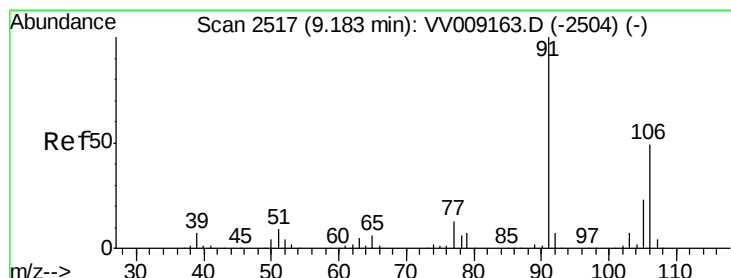
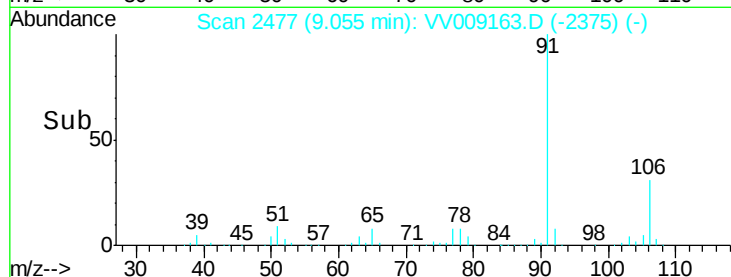
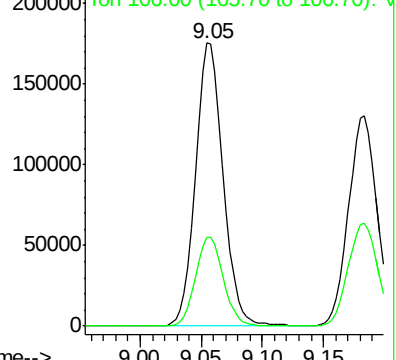
Ion Ratio Lower Upper

91 100

106 31.3 22.5 41.9



Abundance Ion 91.00 (90.70 to 91.70): VV009163.D (-2465) (-)



#54

m,p-Xylene

Concen: 24.718 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV009163.D

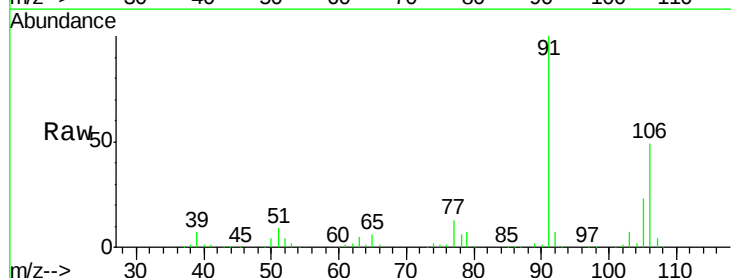
Acq: 04 Jan 2019 15:43

Tgt Ion: 106 Resp: 108006

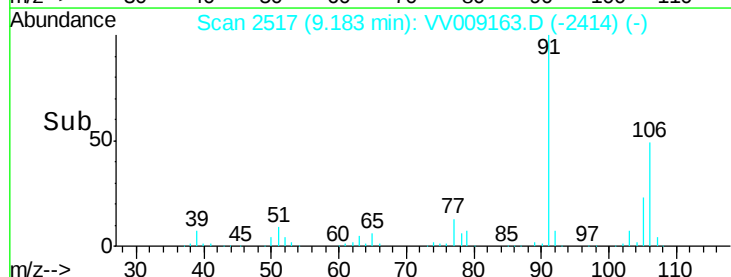
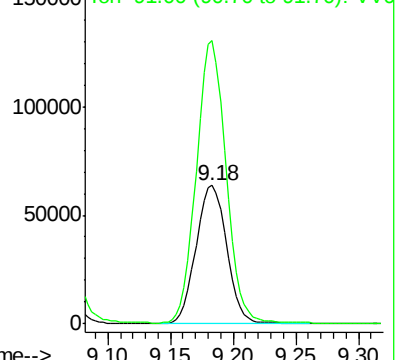
Ion Ratio Lower Upper

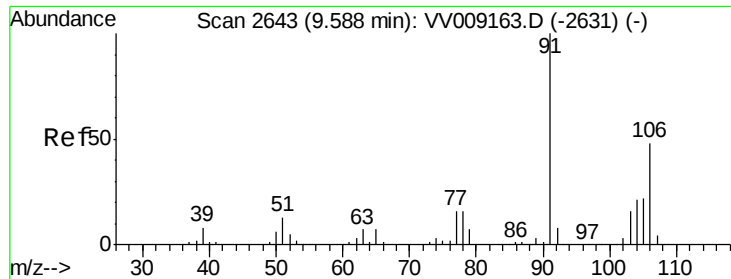
106 100

91 204.4 138.9 257.9



Abundance Ion 106.00 (105.70 to 106.70): VV009163.D (-2504) (-)





#55

o-xylene

Concen: 25.562 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

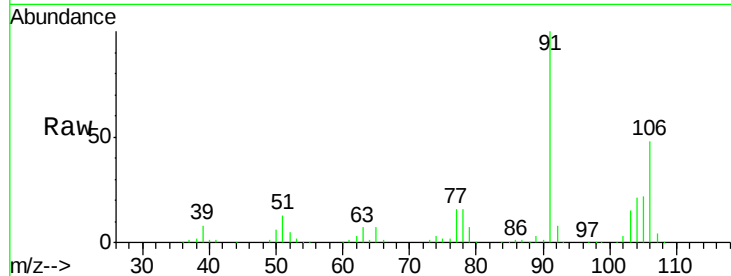
VSTD02573

Tot Ion:106 Resp: 103277

Ion Ratio Lower Upper

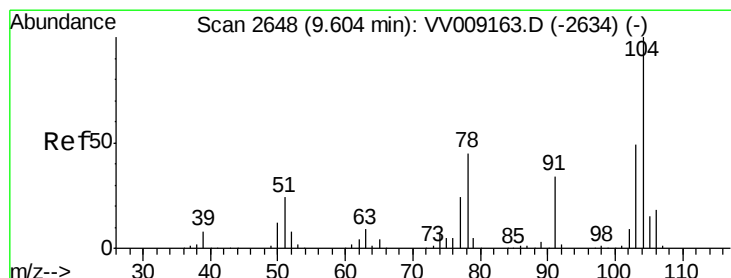
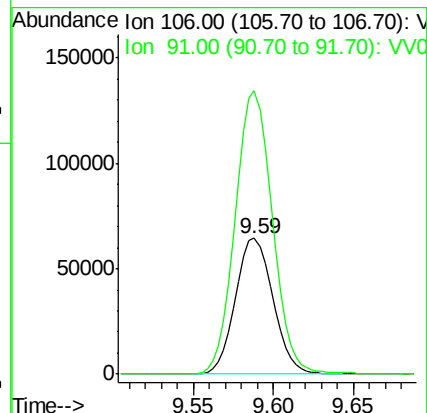
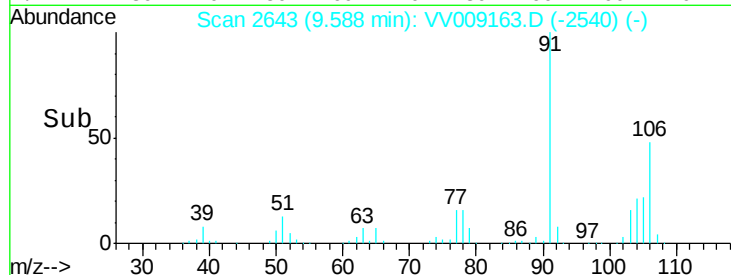
106 100

91 208.2 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 24.973 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009163.D

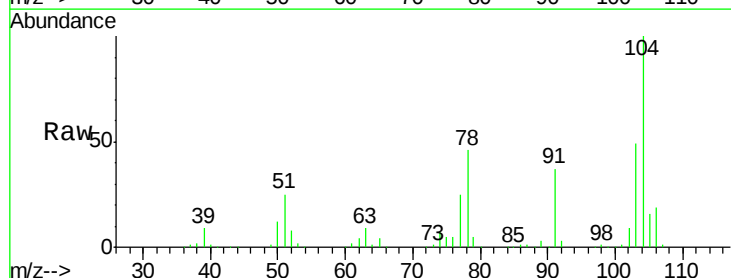
Acq: 04 Jan 2019 15:43

Tgt Ion:104 Resp: 170181

Ion Ratio Lower Upper

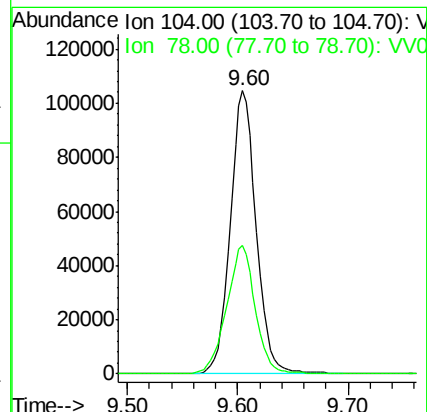
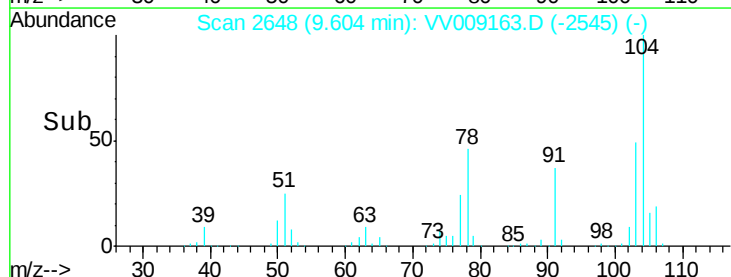
104 100

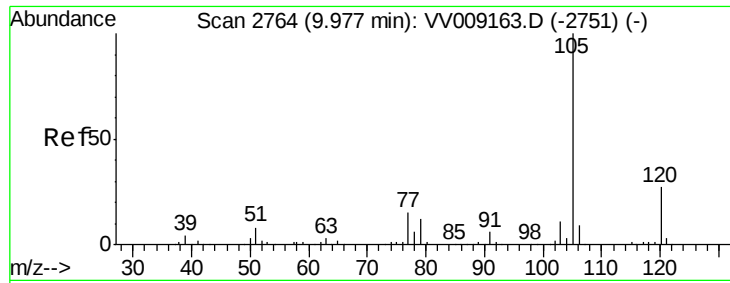
78 45.5 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 25.203 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

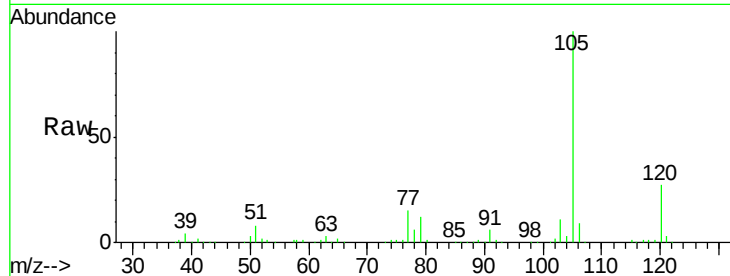
Tot Ion:105 Resp: 282520

Ion Ratio Lower Upper

105 100

120 26.9 21.9 32.9

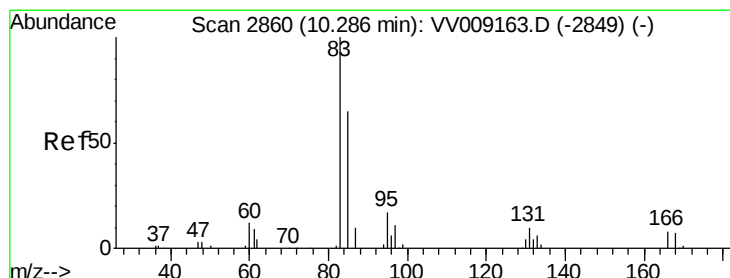
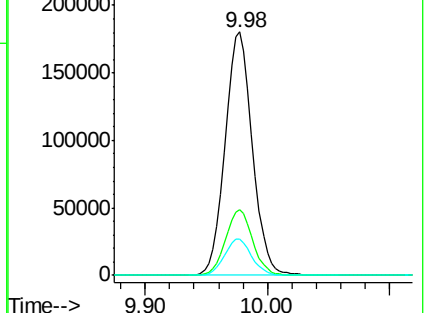
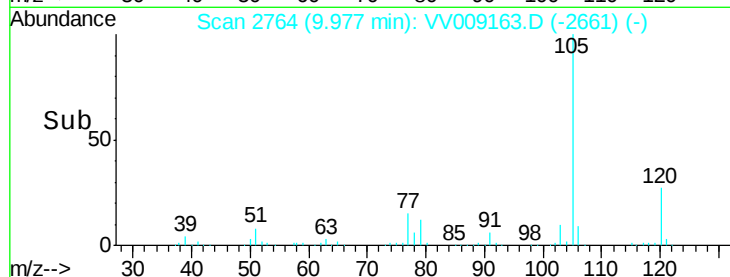
77 14.9 12.1 18.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.632 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

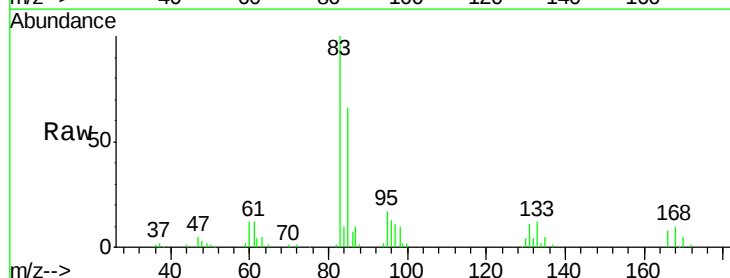
Tgt Ion: 83 Resp: 64668

Ion Ratio Lower Upper

83 100

85 65.7 45.4 84.2

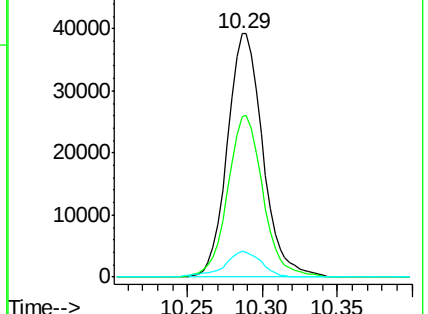
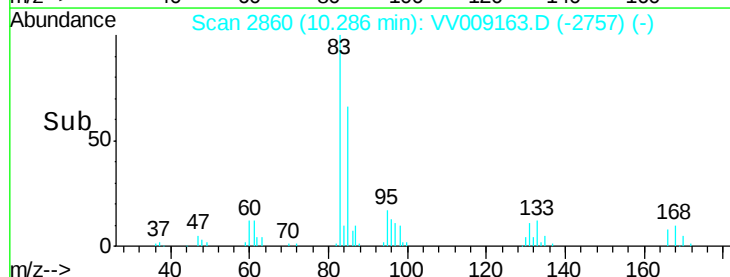
131 10.5 9.4 14.0

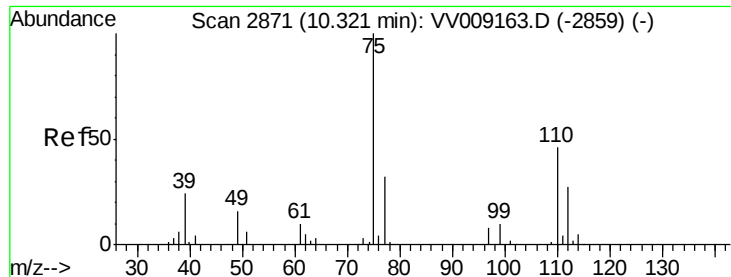


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

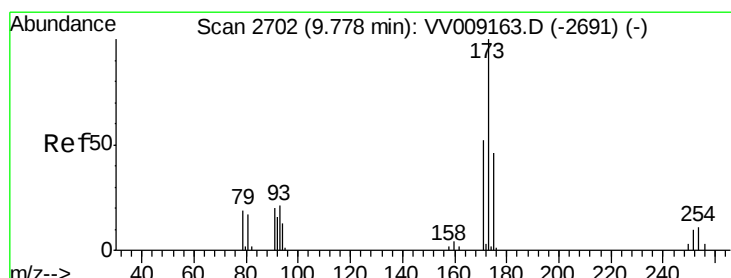
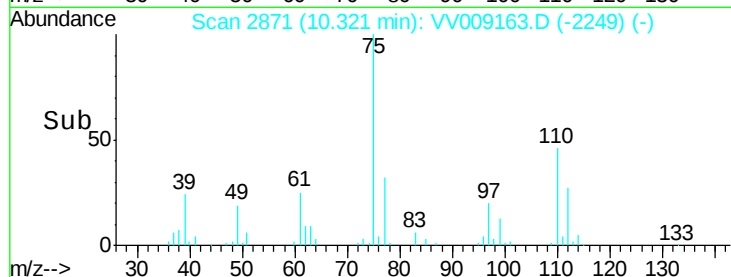
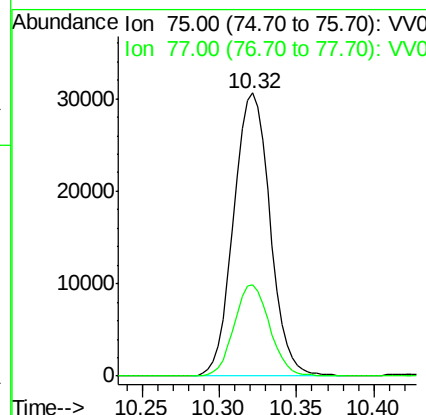
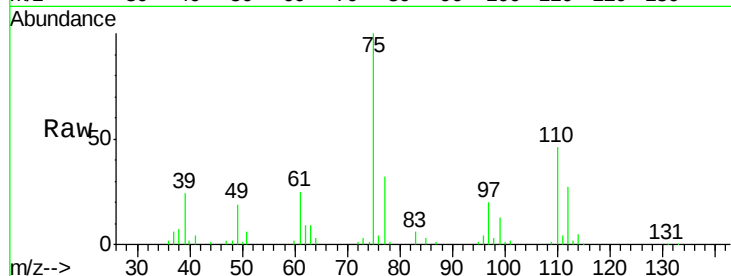




#59
 1,2,3-Trichloropropane
 Concen: 23.887 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

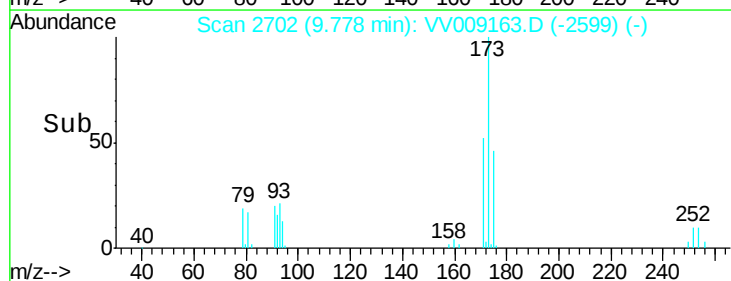
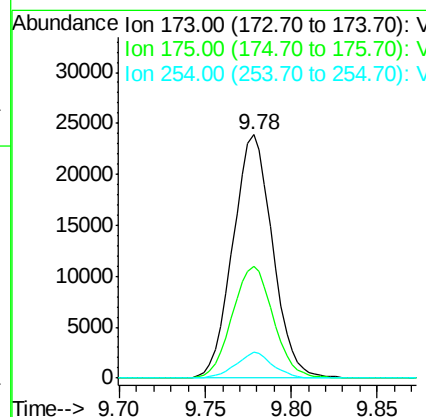
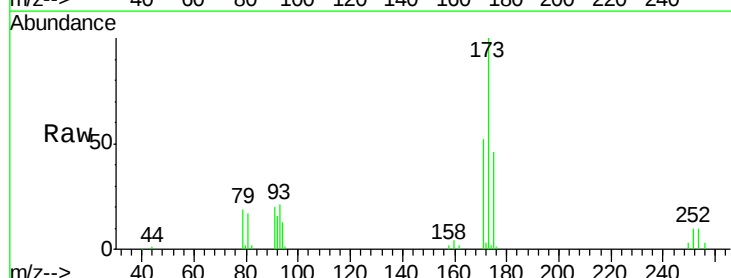
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

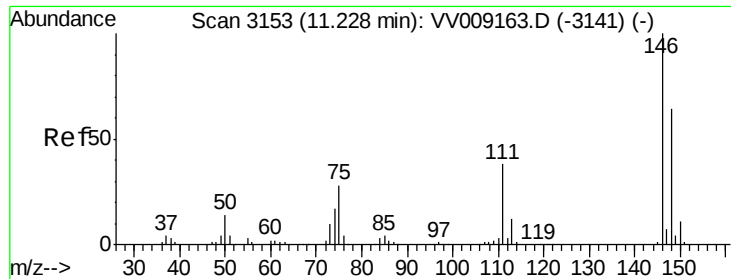
Tot Ion: 75 Resp: 50124
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.0 37.6



#62
 Bromoform
 Concen: 25.535 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Tgt Ion: 173 Resp: 38316
 Ion Ratio Lower Upper
 173 100
 175 47.4 38.4 57.6
 254 9.7 8.0 12.0





#63

1,3-Dichlorobenzene

Concen: 24.600 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

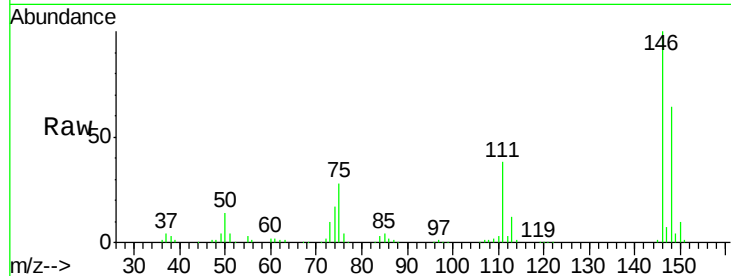
Tot Ion:146 Resp: 131692

Ion Ratio Lower Upper

146 100

111 38.1 28.0 52.0

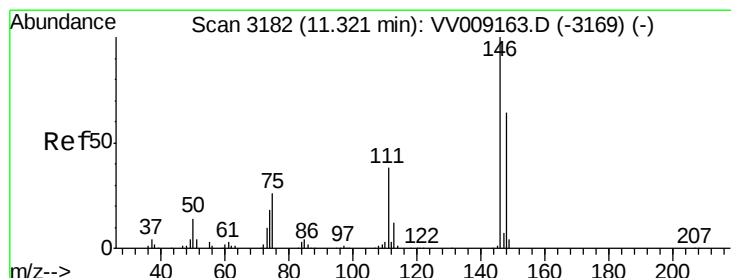
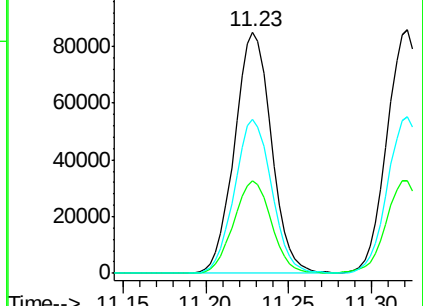
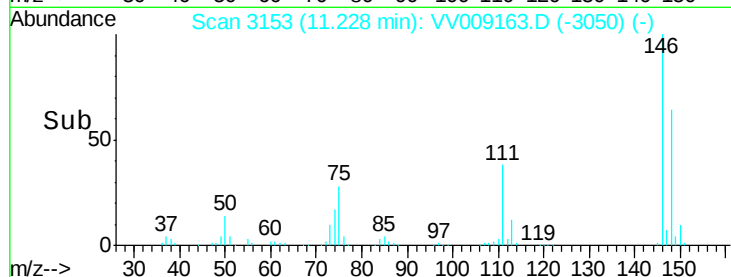
148 63.7 45.6 84.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 23.956 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

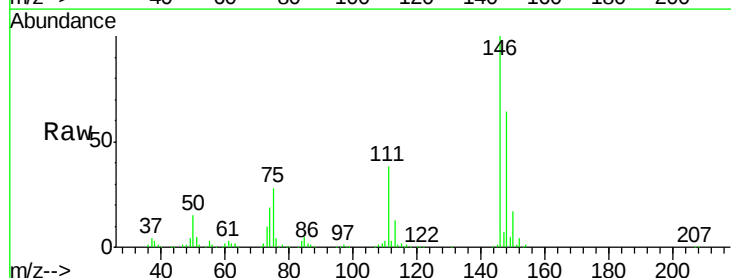
Tgt Ion:146 Resp: 133677

Ion Ratio Lower Upper

146 100

111 38.2 26.0 48.4

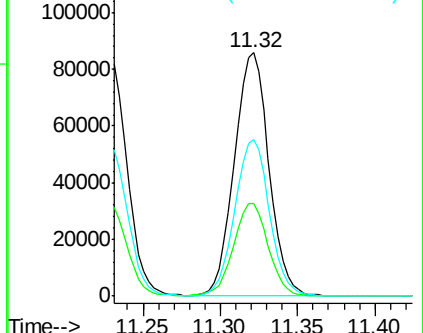
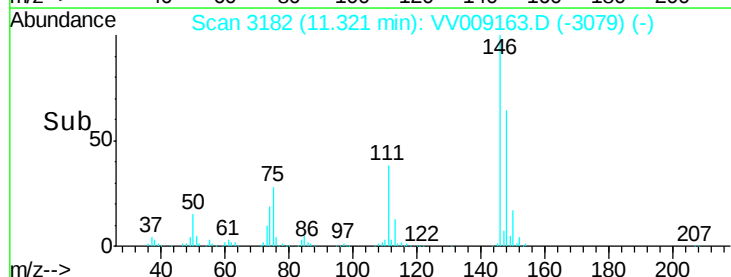
148 64.2 43.4 80.6

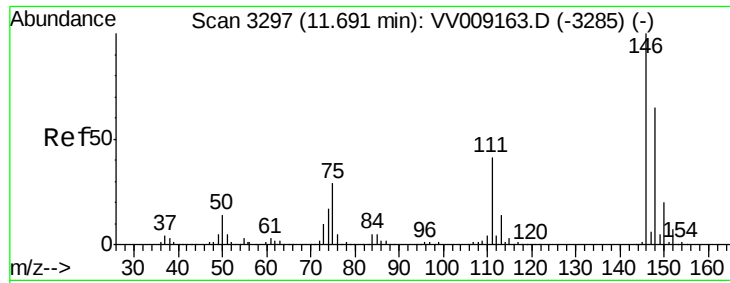


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 24.467 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

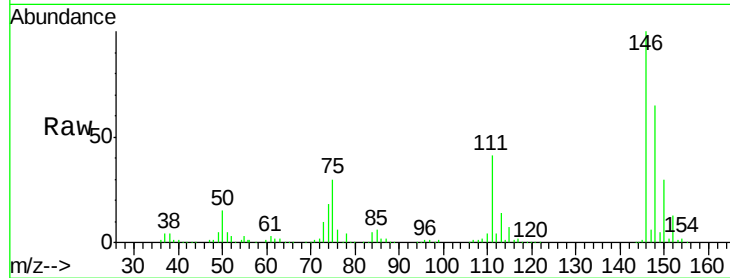
Tot Ion:146 Resp: 124766

Ion Ratio Lower Upper

146 100

111 41.4 32.2 48.4

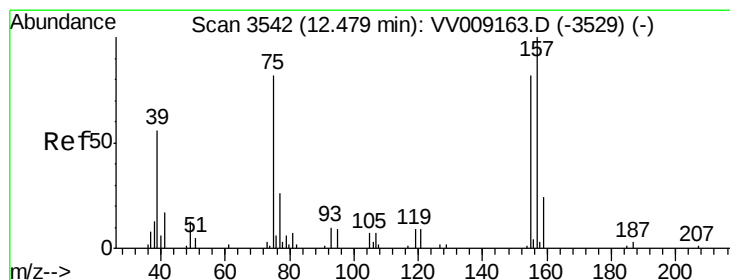
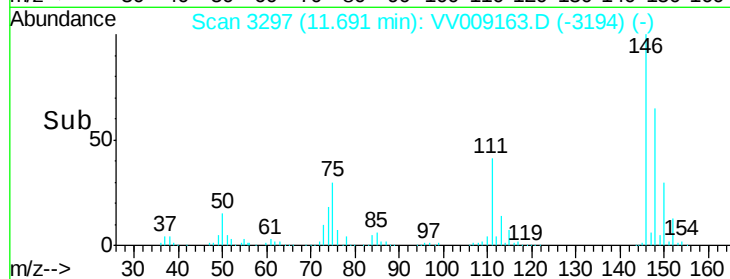
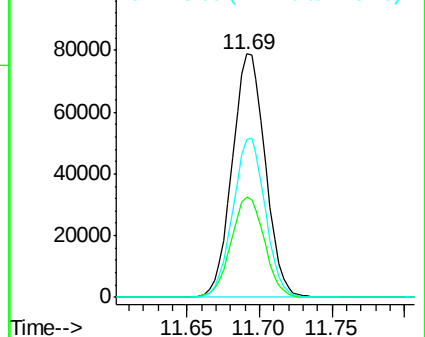
148 65.0 50.4 75.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 24.342 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

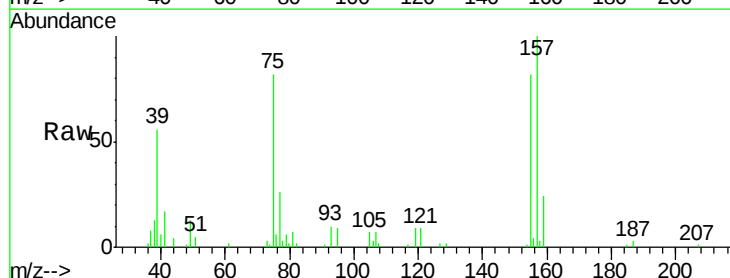
Tgt Ion: 75 Resp: 12887

Ion Ratio Lower Upper

75 100

157 121.5 96.9 145.3

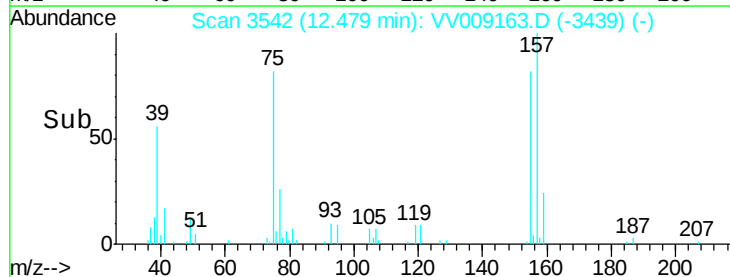
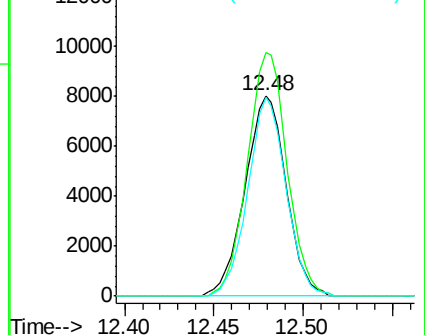
155 99.0 68.0 102.0

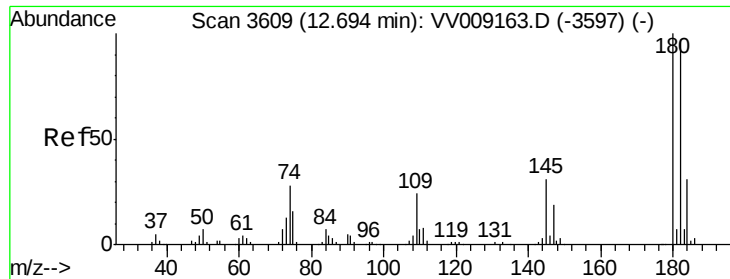


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

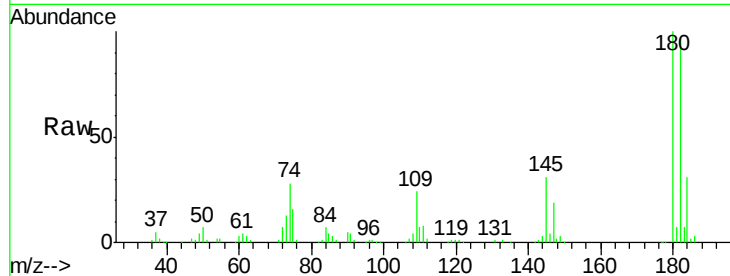




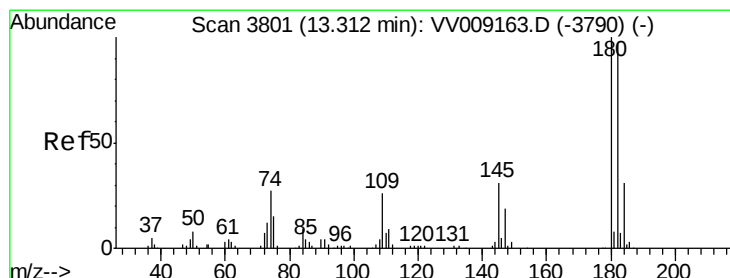
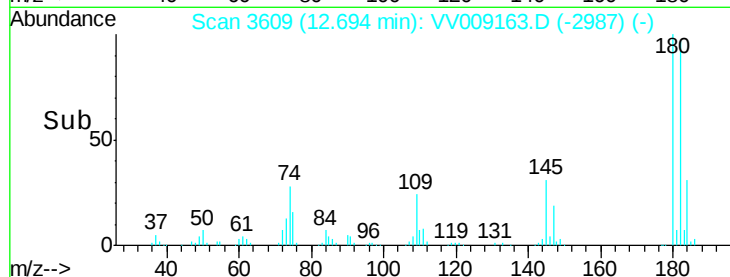
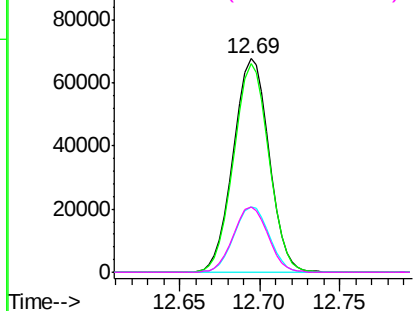
#67
 1,3,5-Trichlorobenzene
 Concen: 23.806 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

Tot Ion:180 Resp: 102782
 Ion Ratio Lower Upper
 180 100
 182 95.9 75.3 112.9
 184 30.1 24.6 37.0
 145 29.7 23.9 35.9

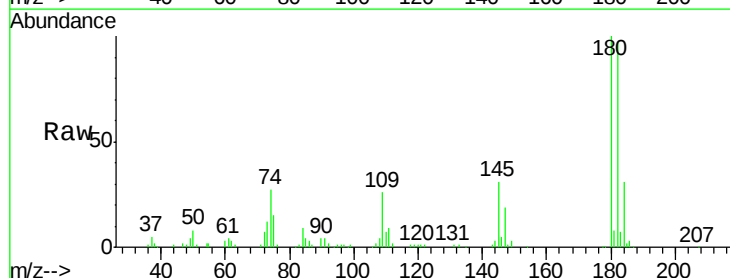


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

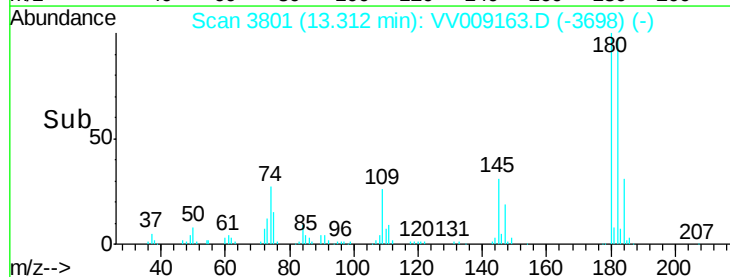
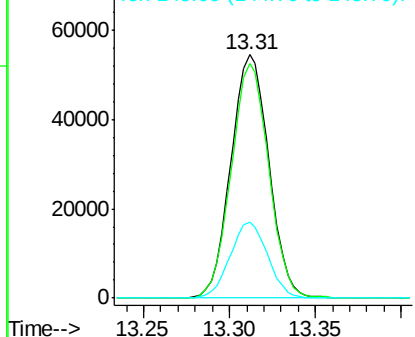


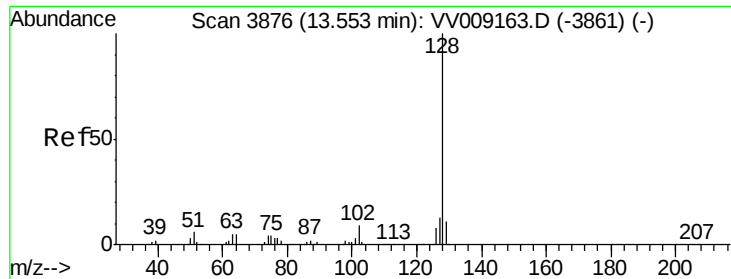
#68
 1,2,4-trichlorobenzene
 Concen: 23.772 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009163.D
 Acq: 04 Jan 2019 15:43

Tgt Ion:180 Resp: 83540
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.2 114.4
 145 30.8 25.4 38.0



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





#69

Naphthalene

Concen: 24.235 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

Instrument :

MSVOA_V

ClientSampled :

VSTD02573

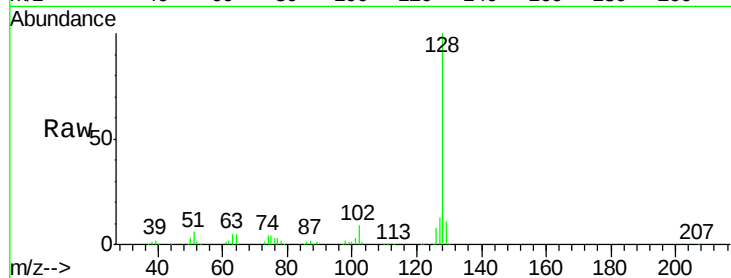
Tot Ion:128 Resp: 173473

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.4

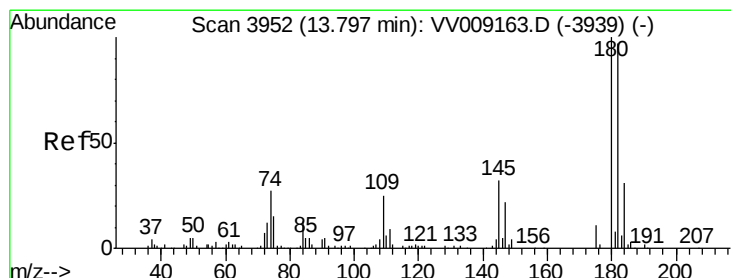
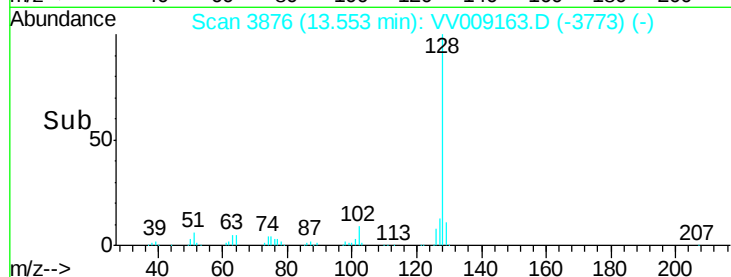
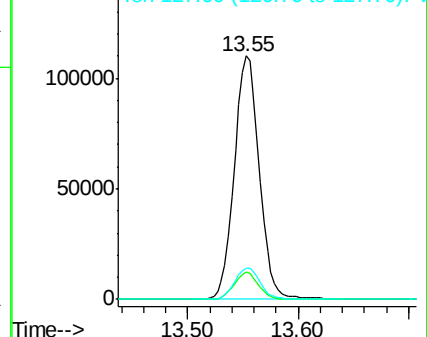
127 13.2 10.4 15.6



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: 23.550 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV009163.D

Acq: 04 Jan 2019 15:43

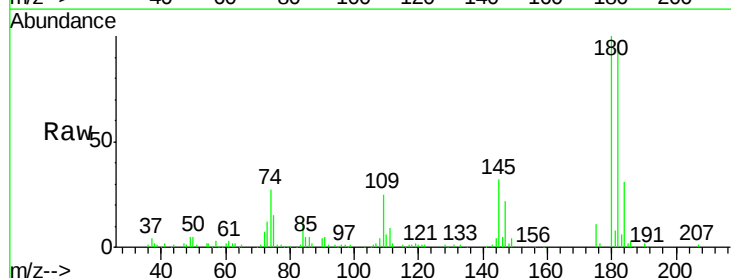
Tgt Ion:180 Resp: 75951

Ion Ratio Lower Upper

180 100

182 97.3 74.4 111.6

145 32.8 25.7 38.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

