

Data File : VV012196.D
Acq On : 11 Aug 2019 16:43
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

Quant Time: Aug 12 01:39:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081019WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Aug 12 01:34:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	485838	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	467157	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	246528	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	110207	61.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	123.32%
7) Chloroethane-d5	1.58	69	82051	72.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	144.00%#
11) 1,1-Dichloroethene-d2	2.13	63	215012	63.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	127.28%#
21) 2-Butanone-d5	3.92	46	118535	134.13	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	134.13%#
24) Chloroform-d	4.40	84	185172	49.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.74%
26) 1,2-Dichloroethane-d4	5.08	65	102484	48.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.26%
32) Benzene-d6	5.10	84	378693	52.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.56%
36) 1,2-Dichloropropane-d6	6.12	67	109321	55.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.98%
41) Toluene-d8	7.36	98	344282	49.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.80%
43) trans-1,3-Dichloropropene-	7.66	79	49929	46.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.52%
47) 2-Hexanone-d5	8.13	63	85178	113.00	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.00%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	145853	54.00	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	108.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	131751	45.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.44%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	183702	44.542	ug/L 100
3) Chloromethane	1.25	50	181206	62.260	ug/L 99
5) Vinyl chloride	1.32	62	181614	67.612	ug/L 99
6) Bromomethane	1.53	94	98035	62.216	ug/L 97
8) Chloroethane	1.60	64	104349	74.159	ug/L 99
9) Trichlorofluoromethane	1.77	101	240140	52.340	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	135674	63.347	ug/L 93
12) 1,1-Dichloroethene	2.14	96	129950	65.927	ug/L 96
13) Acetone	2.18	43	151267	117.878	ug/L 98
14) Carbon disulfide	2.32	76	395543	55.632	ug/L 99
15) Methyl Acetate	2.45	43	175903	66.933	ug/L 93
16) Methylene chloride	2.53	84	167750	55.598	ug/L 91
17) trans-1,2-Dichloroethene	2.79	96	152177	52.918	ug/L 97
18) Methyl tert-butyl Ether	2.80	73	469717	50.732	ug/L 97
19) 1,1-Dichloroethane	3.23	63	281801	55.872	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	171241	52.414	ug/L 95
22) 2-Butanone	4.01	43	239766	125.454	ug/L 99

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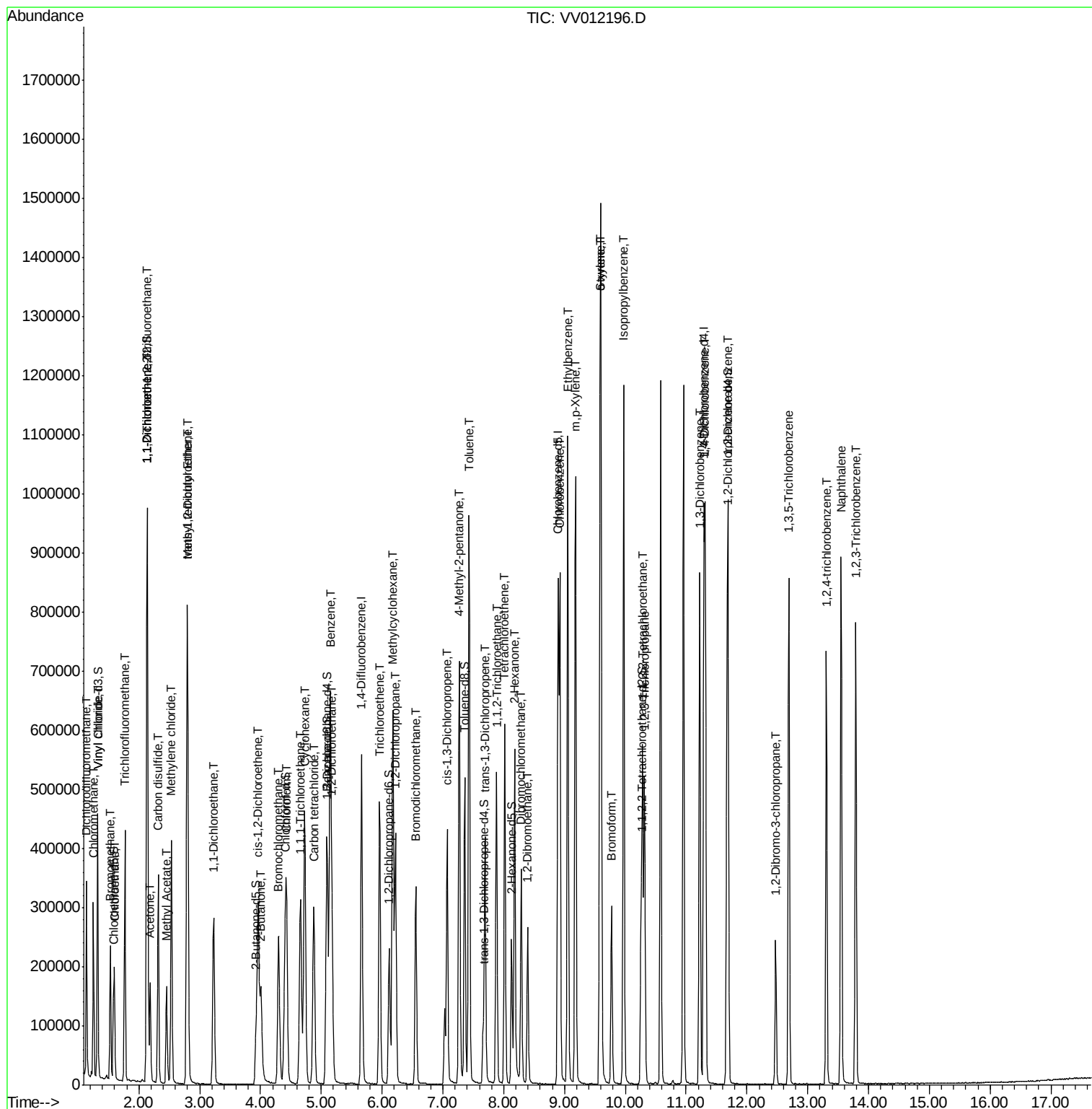
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	90098	49.927	ug/L #	86
25) Chloroform	4.43	83	290652	51.174	ug/L	99
27) 1,2-Dichloroethane	5.18	62	221884	49.699	ug/L	100
29) Cyclohexane	4.73	56	247953	56.995	ug/L	93
30) 1,1,1-Trichloroethane	4.66	97	251856	46.257	ug/L	98
31) Carbon tetrachloride	4.88	117	227022	44.714	ug/L	100
33) Benzene	5.15	78	651419	55.184	ug/L	100
34) Trichloroethene	5.96	95	162297	50.356	ug/L	99
35) Methylcyclohexane	6.18	83	262485	52.297	ug/L	94
37) 1,2-Dichloropropane	6.22	63	163390	57.524	ug/L	100
38) Bromodichloromethane	6.55	83	222605	50.578	ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	255590	52.176	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	460727	126.262	ug/L	94
42) Toluene	7.43	91	695676	53.252	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	228260	51.599	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	162515	51.692	ug/L	96
46) Tetrachloroethene	8.02	164	142422	46.227	ug/L	97
48) 2-Hexanone	8.18	43	341451	123.819	ug/L	96
49) Dibromochloromethane	8.29	129	185672	46.658	ug/L	98
50) 1,2-Dibromoethane	8.40	107	175855	51.188	ug/L	98
51) Chlorobenzene	8.92	112	454123	50.864	ug/L	97
52) Ethylbenzene	9.05	91	758579	52.012	ug/L	99
53) m,p-Xylene	9.18	106	297639	51.790	ug/L	96
54) o-xylene	9.59	106	289879	50.883	ug/L	99
55) Styrene	9.60	104	500739	52.579	ug/L	100
56) Isopropylbenzene	9.97	105	754059	50.129	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	269794	56.015	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	207819	54.226	ug/L	100
61) Bromoform	9.77	173	137647	43.473	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	367610	49.101	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	372279	49.936	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	369257	48.825	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	57334	48.917	ug/L	87
67) 1,3,5-Trichlorobenzene	12.69	180	271496	46.054	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	229714	46.961	ug/L	99
69) Naphthalene	13.55	128	702277	51.424	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	245167	47.732	ug/L	98

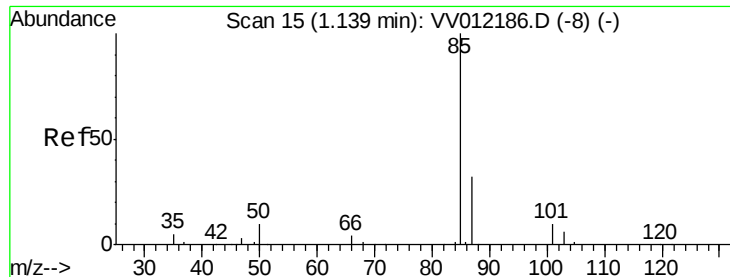
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.542 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012196.D

Acq: 11 Aug 2019 16:43

Instrument :

MSVOA_V

ClientSampleId :

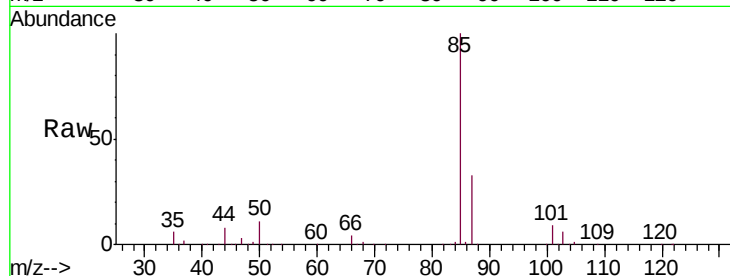
VSTD05074

Tgt Ion: 85 Resp: 183702

Ion Ratio Lower Upper

85 100

87 33.0 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VV012186.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012186.D (-8) (-)

1.14

200000

150000

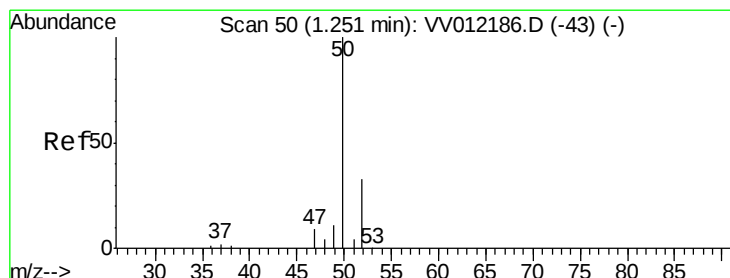
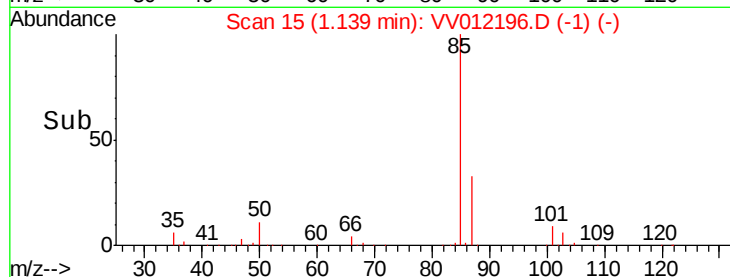
100000

50000

0

1.10 1.15 1.20

Time-->



#3

Chloromethane

Concen: 62.260 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012196.D

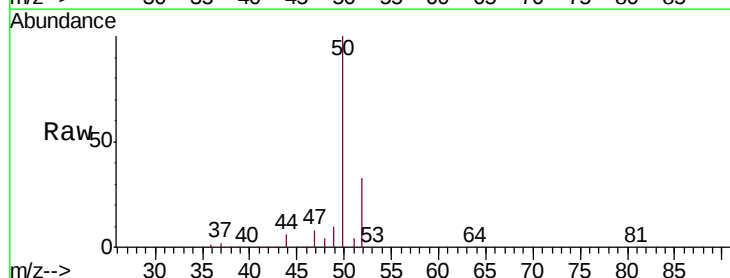
Acq: 11 Aug 2019 16:43

Tgt Ion: 50 Resp: 181206

Ion Ratio Lower Upper

50 100

52 32.6 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV012186.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV012186.D (-43) (-)

1.25

200000

150000

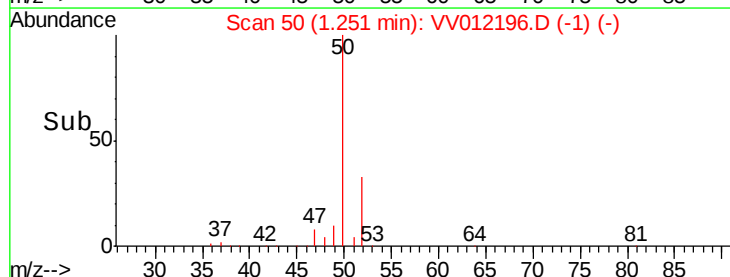
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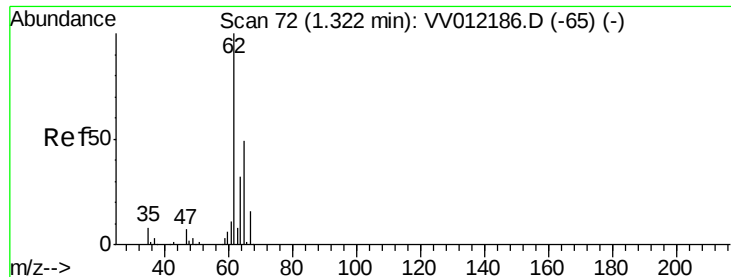
50000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 67.612 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012196.D

Acq: 11 Aug 2019 16:43

Instrument :

MSVOA_V

ClientSampleId :

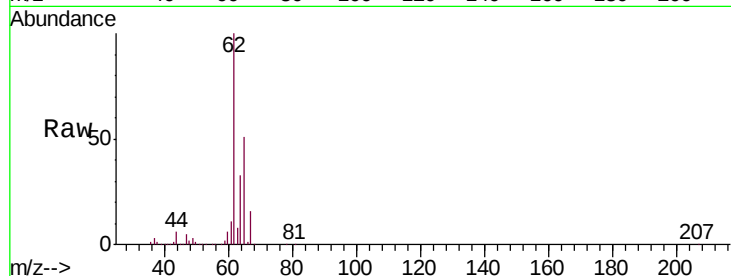
VSTD05074

Tgt Ion: 62 Resp: 181614

Ion Ratio Lower Upper

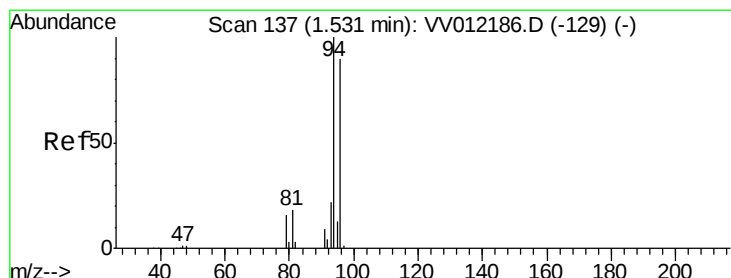
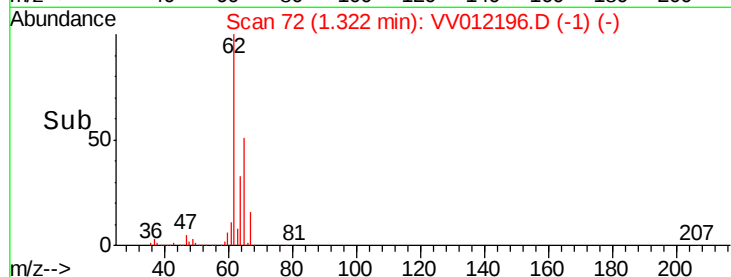
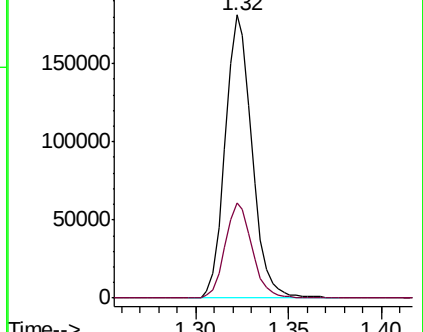
62 100

64 33.5 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VV012186.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV012186.D (-65) (-)



#6

Bromomethane

Concen: 62.216 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV012196.D

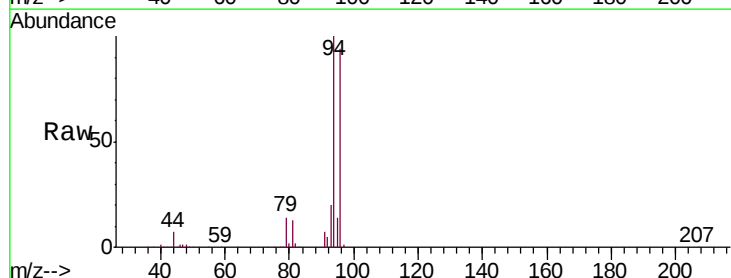
Acq: 11 Aug 2019 16:43

Tgt Ion: 94 Resp: 98035

Ion Ratio Lower Upper

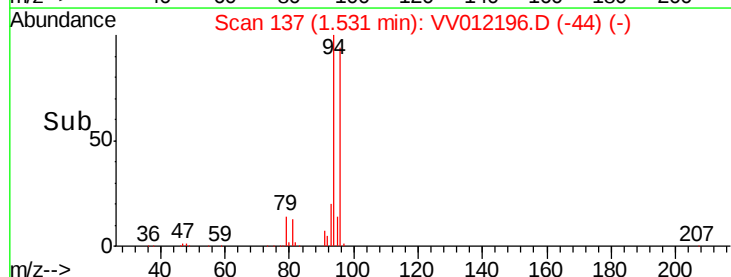
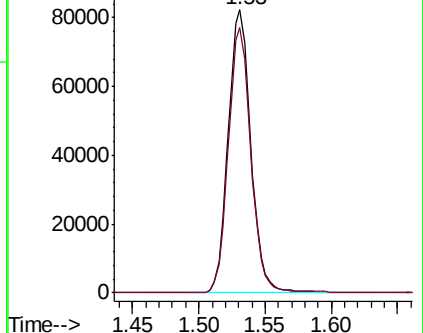
94 100

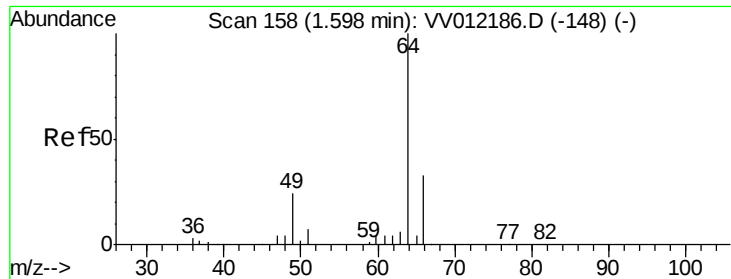
96 93.6 67.9 126.1



Abundance Ion 94.00 (93.70 to 94.70): VV012186.D (-129) (-)

Ion 96.00 (95.70 to 96.70): VV012186.D (-129) (-)

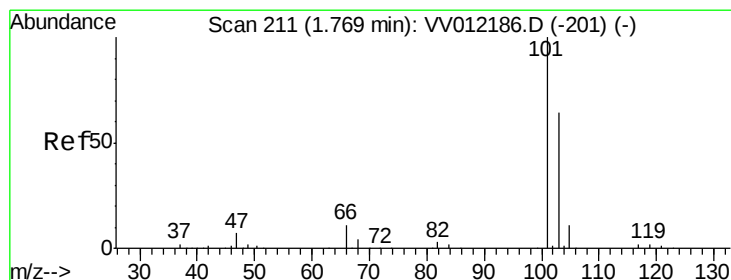
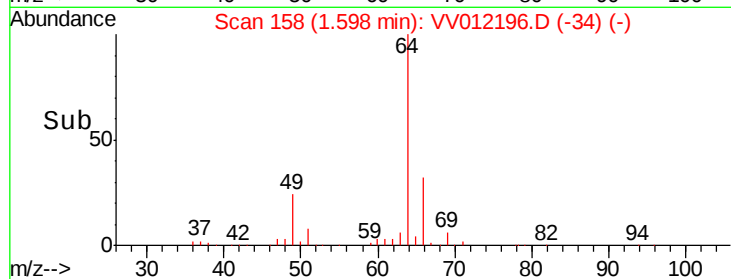
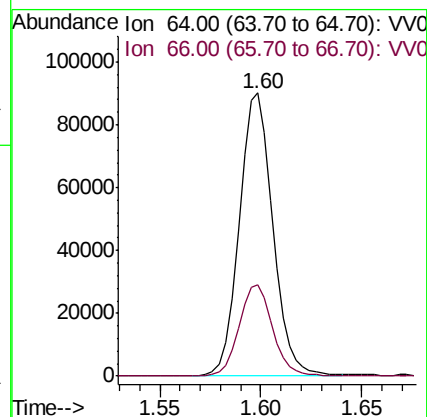
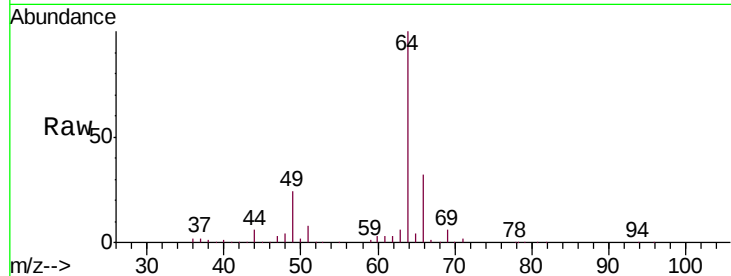




#8
Chloroethane
Concen: 74.159 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV012196.D
Acq: 11 Aug 2019 16:43

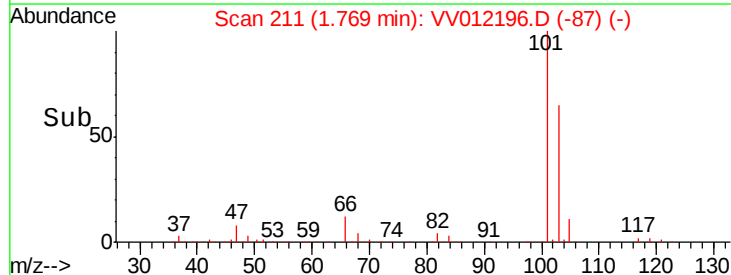
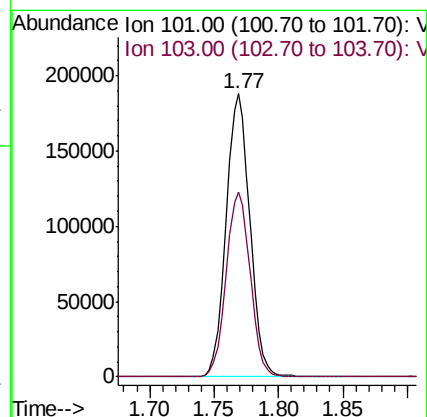
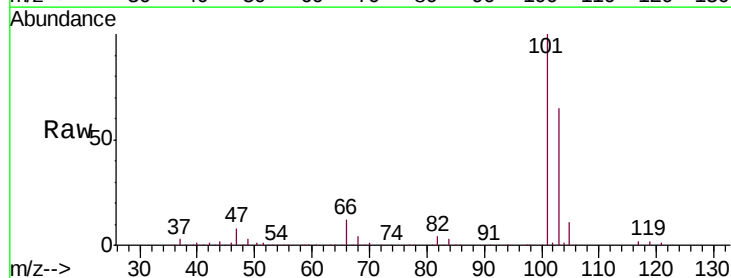
Instrument :
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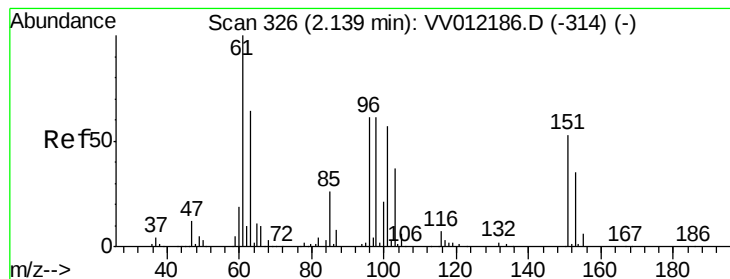
Tgt Ion: 64 Resp: 104349
Ion Ratio Lower Upper
64 100
66 32.3 22.9 42.5



#9
Trichlorofluoromethane
Concen: 52.340 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV012196.D
Acq: 11 Aug 2019 16:43

Tgt Ion: 101 Resp: 240140
Ion Ratio Lower Upper
101 100
103 65.8 51.8 77.6





#10

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

Concen: 63.347 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012196.D

Acq: 11 Aug 2019 16:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

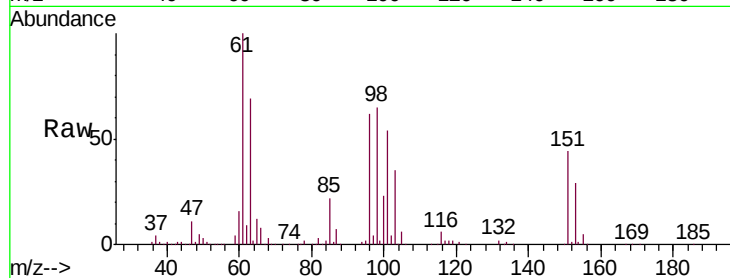
Tgt Ion: 101 Resp: 135674

Ion Ratio Lower Upper

101 100

85 40.7 33.6 50.4

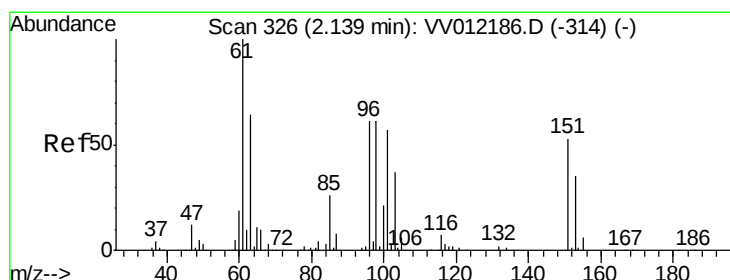
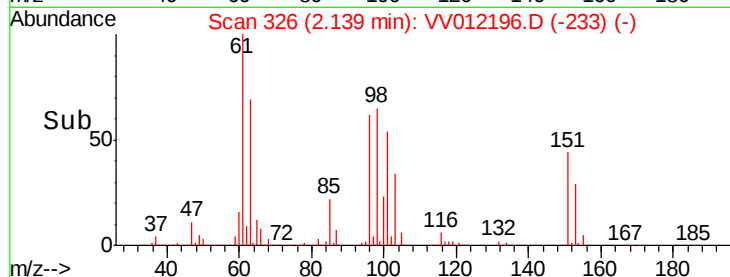
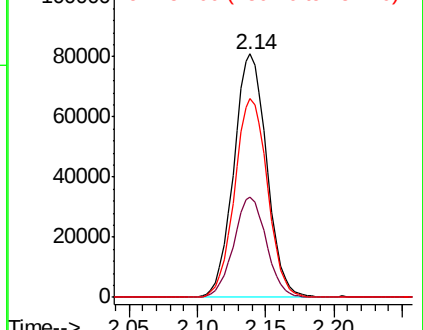
151 81.6 71.8 107.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 65.927 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012196.D

Acq: 11 Aug 2019 16:43

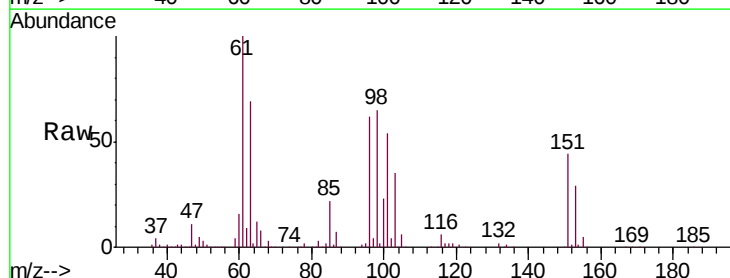
Tgt Ion: 96 Resp: 129950

Ion Ratio Lower Upper

96 100

61 161.6 115.1 213.8

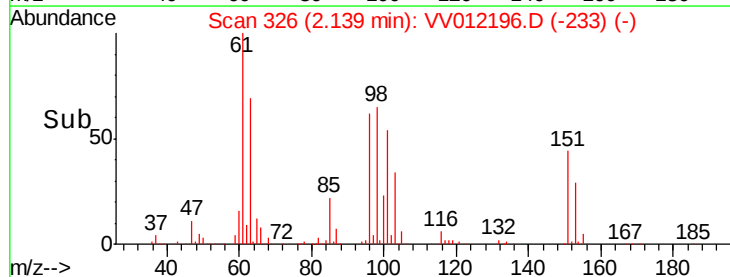
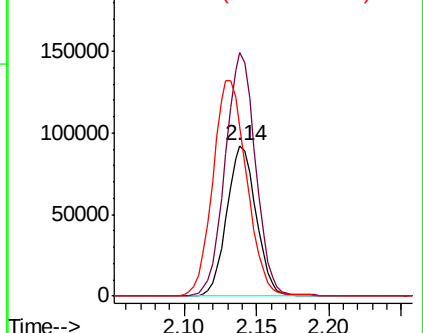
63 112.2 83.9 155.7

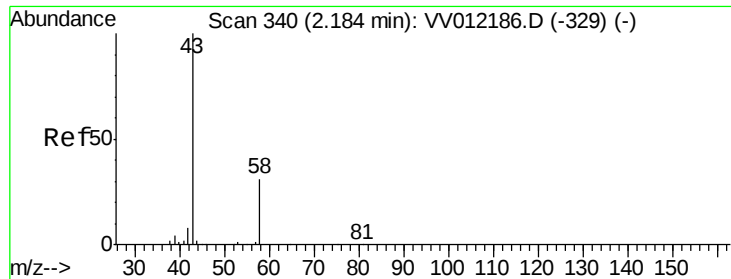


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

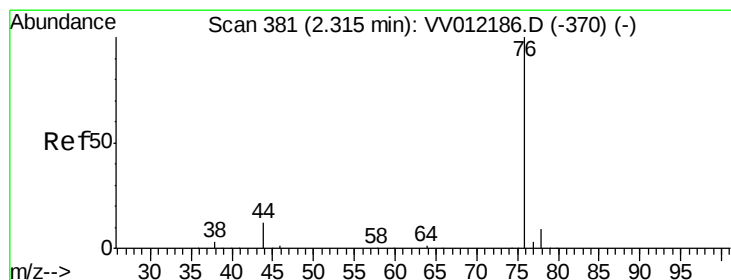
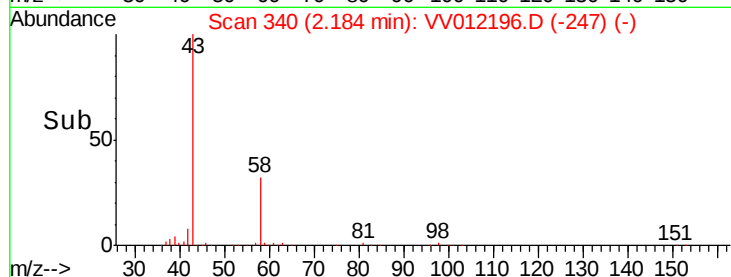
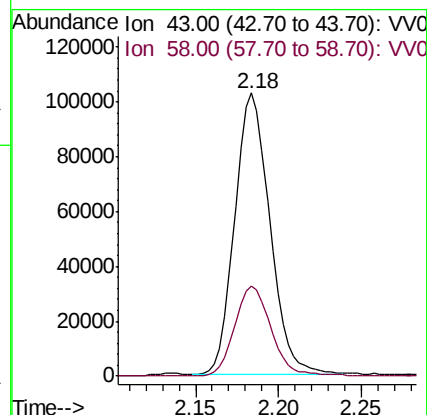
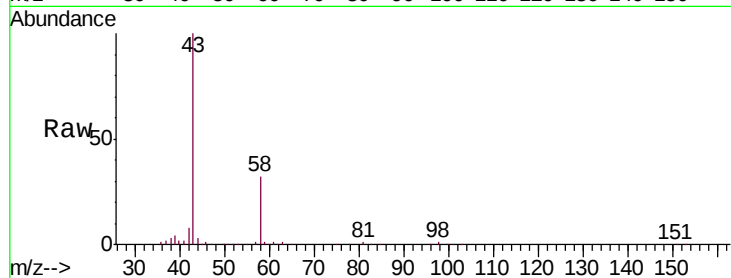




#13
Acetone
Concen: 117.878 ug/L
RT: 2.18 min Scan# 340
Delta R.T. 0.00 min
Lab File: VV012196.D
Acq: 11 Aug 2019 16:43

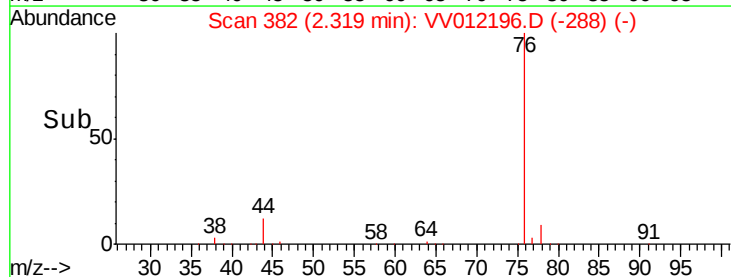
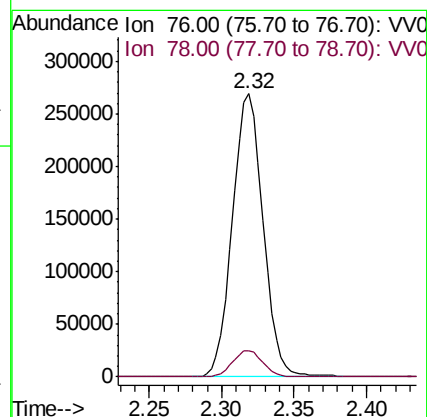
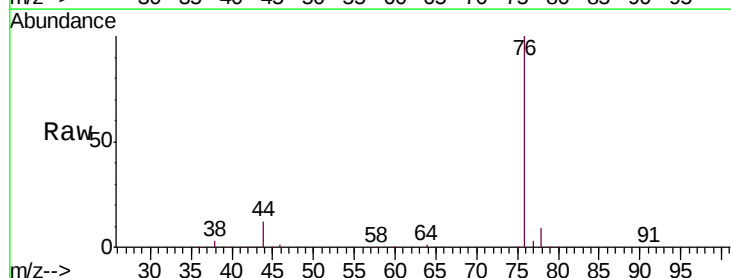
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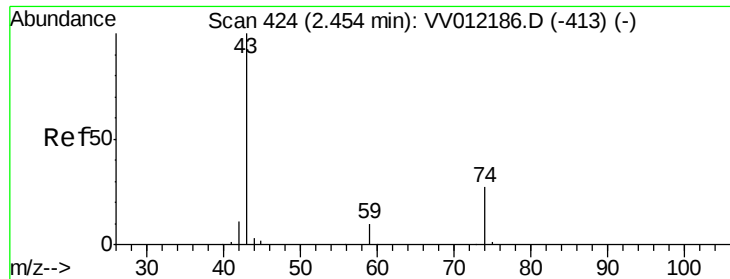
Tgt Ion: 43 Resp: 151267
Ion Ratio Lower Upper
43 100
58 32.8 0.0 63.4



#14
Carbon disulfide
Concen: 55.632 ug/L
RT: 2.32 min Scan# 382
Delta R.T. 0.00 min
Lab File: VV012196.D
Acq: 11 Aug 2019 16:43

Tgt Ion: 76 Resp: 395543
Ion Ratio Lower Upper
76 100
78 9.4 7.3 10.9

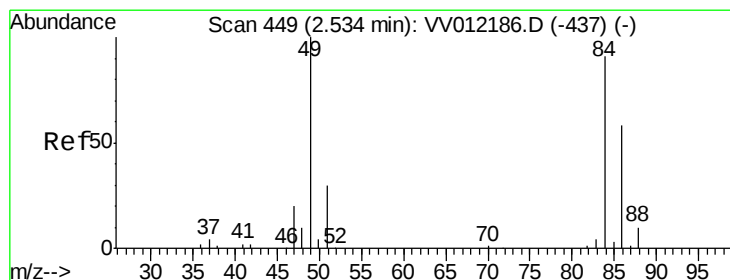
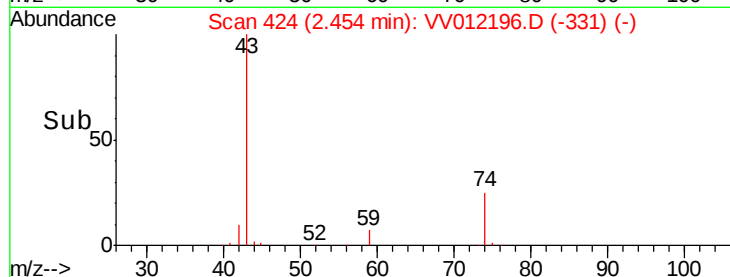
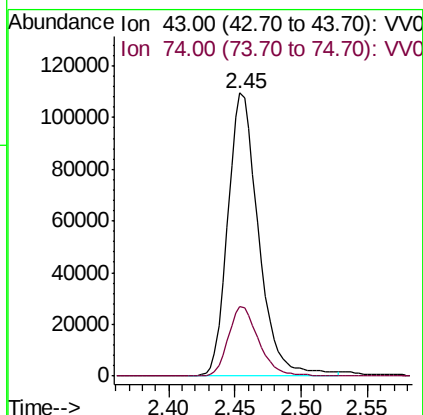
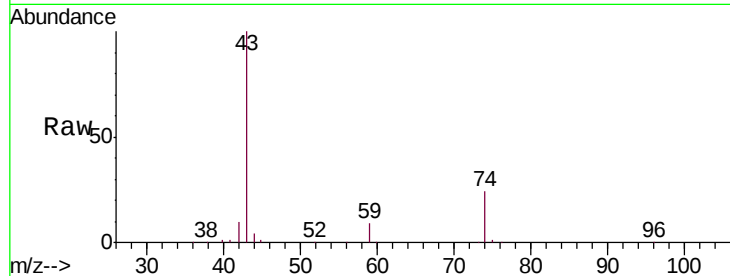




#15
Methyl Acetate
Concen: 66.933 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV012196.D
Acq: 11 Aug 2019 16:43

Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

Tgt Ion: 43 Resp: 175903
Ion Ratio Lower Upper
43 100
74 24.4 22.4 33.6



#16
Methylene chloride
Concen: 55.598 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012196.D
Acq: 11 Aug 2019 16:43

Tgt Ion: 84 Resp: 167750
Ion Ratio Lower Upper
84 100
86 62.8 47.0 87.4
49 119.1 74.8 139.0

