

Data File : VV012545.D
Acq On : 03 Sep 2019 09:06
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

Quant Time: Sep 04 02:08:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 03 05:44:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	150519	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	150165	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	74889	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	70803	4.84	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.80%
7) Chloroethane-d5	1.58	69	66647	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.20%
11) 1,1-Dichloroethene-d2	2.13	63	177436	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.40%
20) 2-Butanone-d5	3.96	46	131480	47.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.40%
24) Chloroform-d	4.40	84	109696	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.08	65	56334	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
32) Benzene-d6	5.10	84	196465	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.12	67	61805	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	7.36	98	187694	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
43) trans-1,3-Dichloropropene-	7.66	79	21655	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	8.14	63	85145	46.82	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.64%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	45764	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	59901	4.36	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	98919	5.132	ug/L 98
3) Chloromethane	1.25	50	120819	5.293	ug/L 97
5) Vinyl chloride	1.32	62	128415	5.186	ug/L 99
6) Bromomethane	1.54	94	71591	4.862	ug/L 95
8) Chloroethane	1.60	64	82640	4.867	ug/L 99
9) Trichlorofluoromethane	1.77	101	191128	5.034	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	111571	5.266	ug/L 98
12) 1,1-Dichloroethene	2.14	96	102080	5.243	ug/L 96
13) Acetone	2.23	43	200047	50.607	ug/L 96
14) Carbon disulfide	2.32	76	318150	5.082	ug/L 100
15) Methyl Acetate	2.47	43	50949	5.318	ug/L 100
16) Methylene chloride	2.53	84	111444	4.974	ug/L 97
17) Methyl tert-butyl Ether	2.81	73	165820	5.014	ug/L 98
18) trans-1,2-Dichloroethene	2.79	96	77910	5.005	ug/L 95
19) 1,1-Dichloroethane	3.23	63	151559	5.058	ug/L 98
21) 2-Butanone	4.05	43	196247	51.887	ug/L 97
22) cis-1,2-Dichloroethene	3.96	96	76947	4.783	ug/L 97

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Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

Quant Time: Sep 04 02:08:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR090219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 03 05:44:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	31958	4.974	ug/L	96
25) Chloroform	4.42	83	156710	4.991	ug/L	99
27) 1,2-Dichloroethane	5.18	62	95363	5.216	ug/L	100
29) 1,1,1-Trichloroethane	4.66	97	124862	5.017	ug/L	99
30) Cyclohexane	4.72	56	124557	4.852	ug/L	100
31) Carbon tetrachloride	4.87	117	108815	5.030	ug/L	100
33) Benzene	5.14	78	326739	5.299	ug/L	100
34) Trichloroethene	5.96	95	82670	4.839	ug/L	98
35) Methylcyclohexane	6.17	83	129771	4.998	ug/L	99
37) 1,2-Dichloropropane	6.22	63	82664	5.010	ug/L	99
38) Bromodichloromethane	6.55	83	106233	5.093	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	107385	5.005	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	509360	53.139	ug/L	99
42) Toluene	7.43	91	351429	5.244	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	84841	4.990	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	54712	5.245	ug/L	95
47) Tetrachloroethene	8.02	164	60940	4.937	ug/L	98
48) 2-Hexanone	8.19	43	359767	53.556	ug/L	99
49) Dibromochloromethane	8.29	129	61741	5.084	ug/L	99
50) 1,2-Dibromoethane	8.40	107	47249	5.076	ug/L	99
51) Chlorobenzene	8.92	112	206098	4.895	ug/L	99
52) Ethylbenzene	9.05	91	379176	5.186	ug/L	98
53) m,p-xylene	9.18	106	138180	5.211	ug/L	99
54) o-xylene	9.59	106	130336	5.209	ug/L	100
55) Styrene	9.60	104	230179	5.407	ug/L	100
56) Isopropylbenzene	9.97	105	360585	5.207	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	60149	5.124	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	47273	5.141	ug/L	95
61) Bromoform	9.77	173	29631	4.869	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	161958	5.009	ug/L	96
63) 1,4-Dichlorobenzene	11.31	146	161345	4.848	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	147009	4.961	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.48	75	9621	4.817	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	113161	4.736	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	83313	4.840	ug/L	98
69) Naphthalene	13.55	128	115143	4.512	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	78008	5.007	ug/L	95

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

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```
ALS Vial      : 2      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

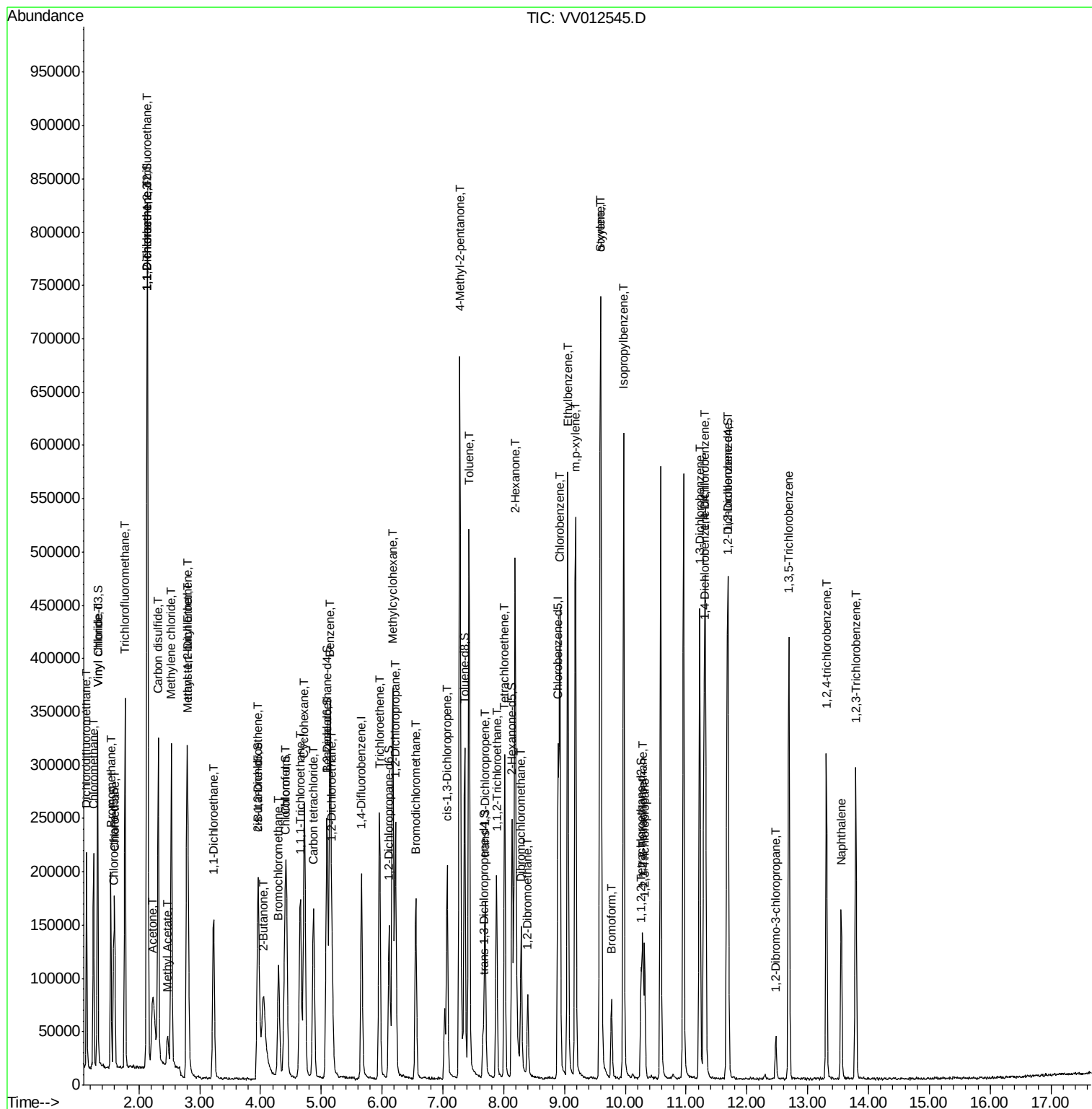
Quant Time: Sep 04 02:08:58 2019

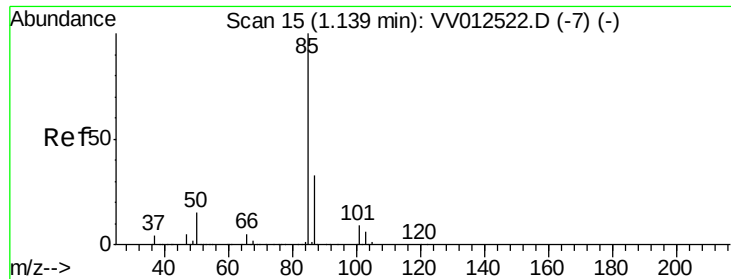
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0MVTR090219WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Tue Sep 03 05:44:01 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.132 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

Instrument :

MSVOA_V

ClientSampleId :

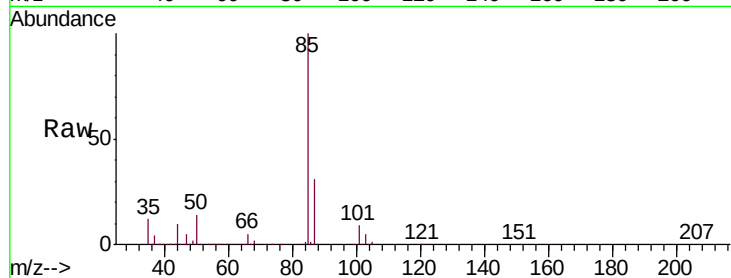
VSTD00539

Tgt Ion: 85 Resp: 98919

Ion Ratio Lower Upper

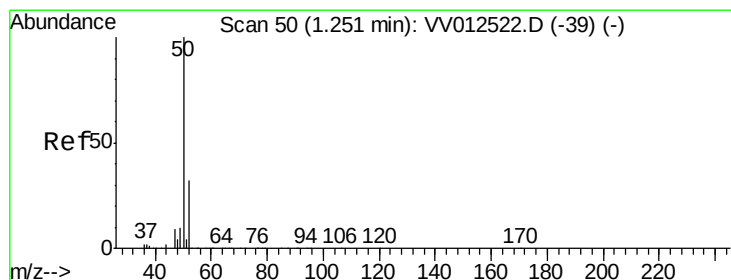
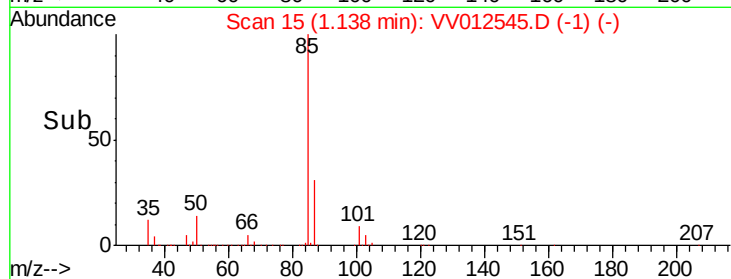
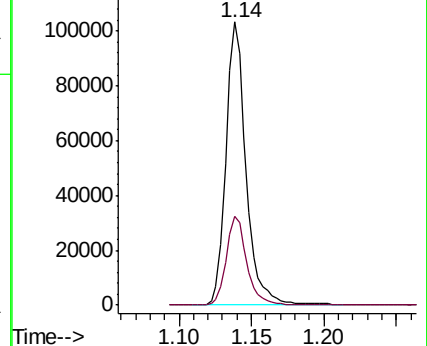
85 100

87 32.0 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VV012522.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV012522.D (-7) (-)



#3

Chloromethane

Concen: 5.293 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012545.D

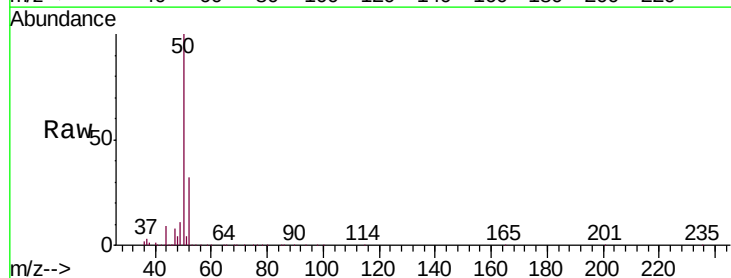
Acq: 03 Sep 2019 09:06

Tgt Ion: 50 Resp: 120819

Ion Ratio Lower Upper

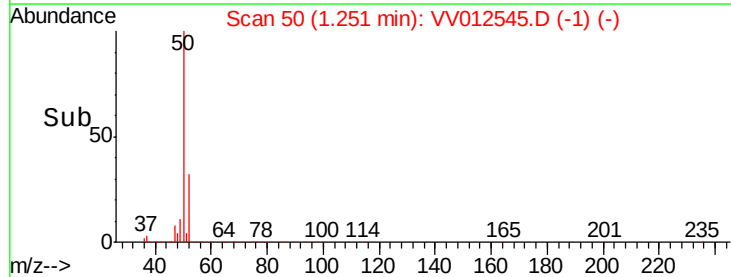
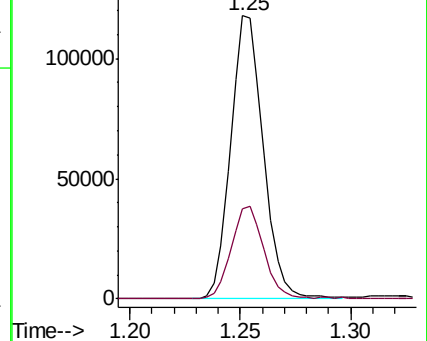
50 100

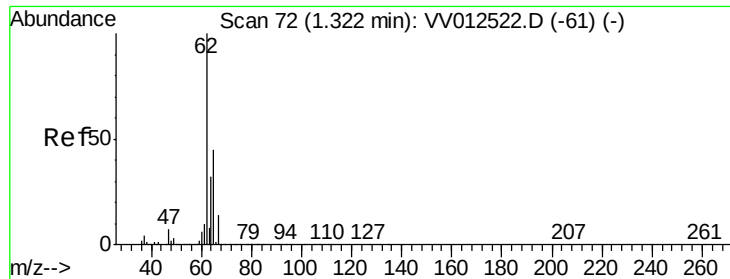
52 31.9 23.5 43.7



Abundance Ion 50.05 (49.75 to 50.75): VV012522.D (-39) (-)

Ion 52.05 (51.75 to 52.75): VV012522.D (-39) (-)





#5

Vinyl chloride

Concen: 5.186 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

Instrument :

MSVOA_V

ClientSampleId :

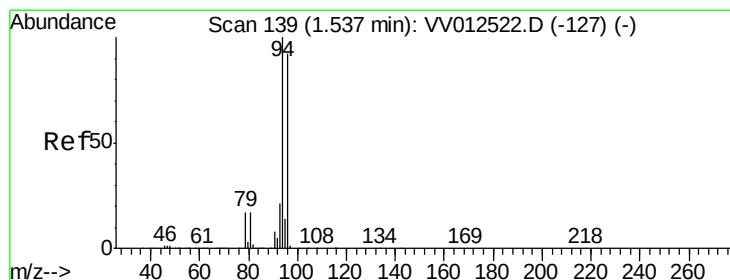
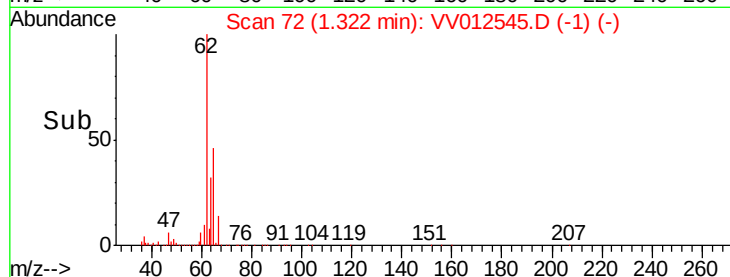
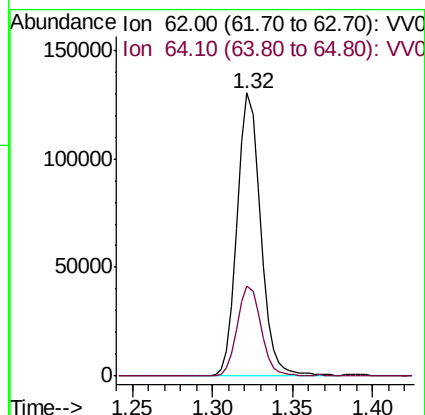
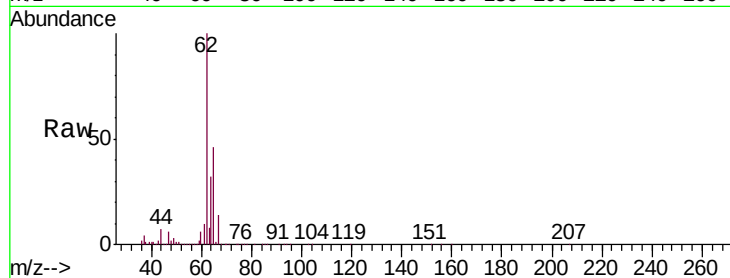
VSTD00539

Tgt Ion: 62 Resp: 128415

Ion Ratio Lower Upper

62 100

64 32.0 22.7 42.1



#6

Bromomethane

Concen: 4.862 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV012545.D

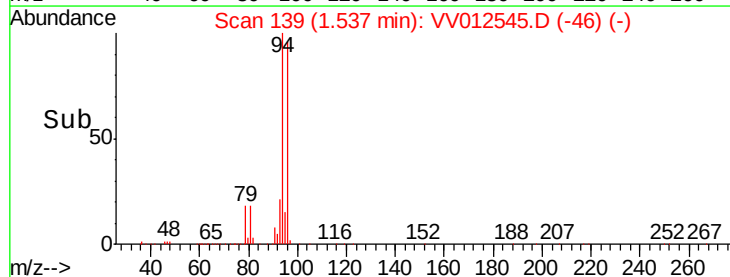
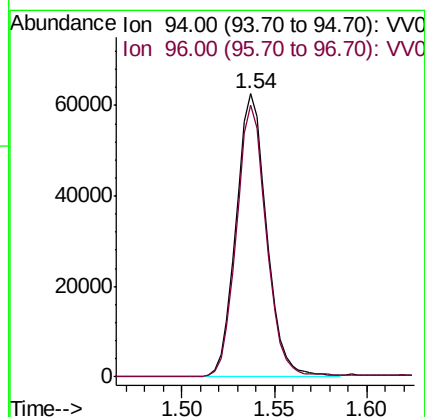
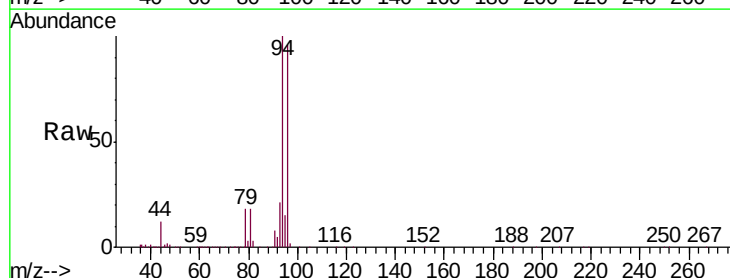
Acq: 03 Sep 2019 09:06

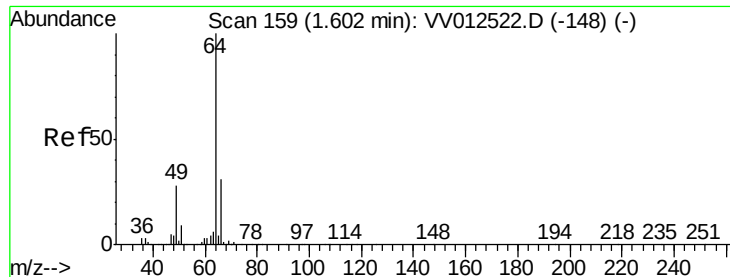
Tgt Ion: 94 Resp: 71591

Ion Ratio Lower Upper

94 100

96 96.3 64.3 119.3





#8

Chloroethane

Concen: 4.867 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

Instrument :

MSVOA_V

ClientSampleId :

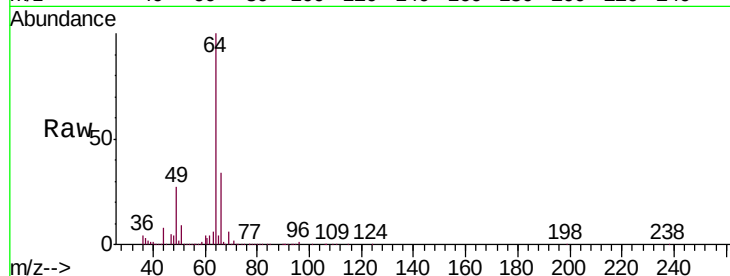
VSTD00539

Tgt Ion: 64 Resp: 82640

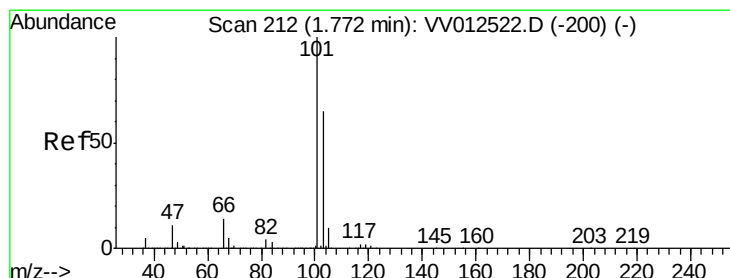
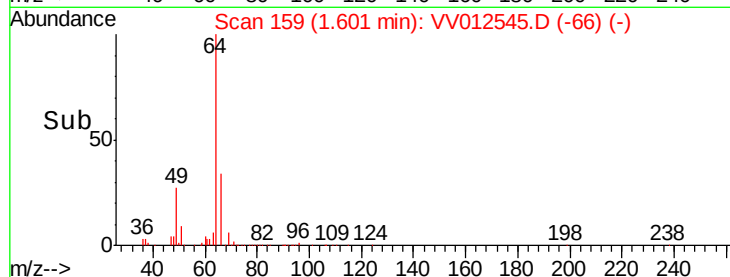
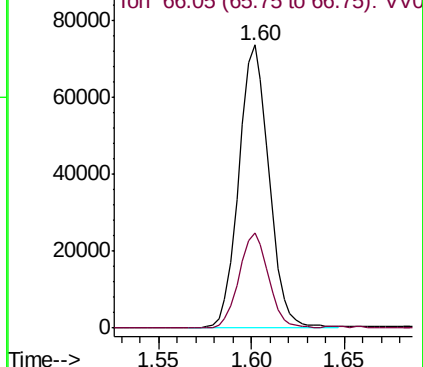
Ion Ratio Lower Upper

64 100

66 33.6 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VV012522.D (-148) (-)



#9

Trichlorofluoromethane

Concen: 5.034 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV012545.D

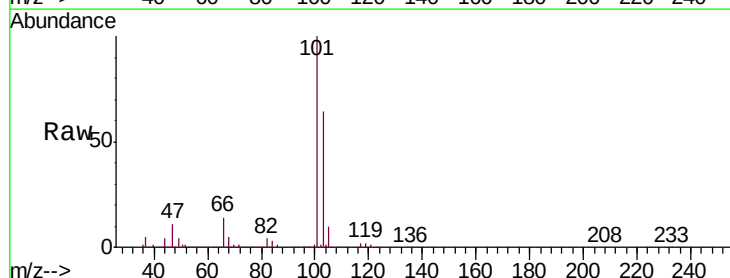
Acq: 03 Sep 2019 09:06

Tgt Ion: 101 Resp: 191128

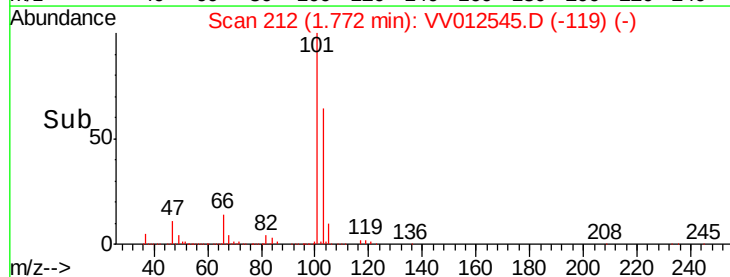
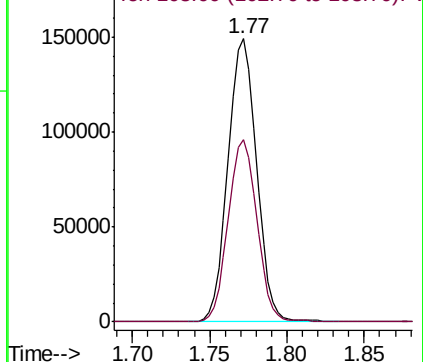
Ion Ratio Lower Upper

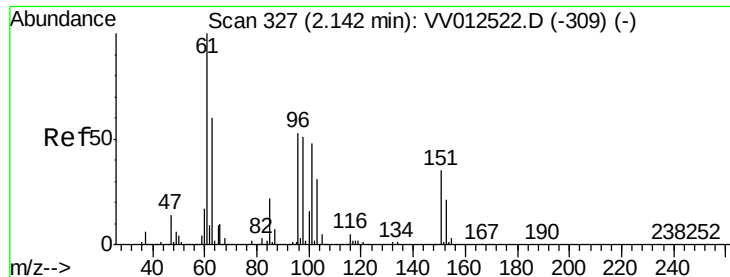
101 100

103 65.0 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VV012522.D (-200) (-)





#10

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

Concen: 5.266 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD00539

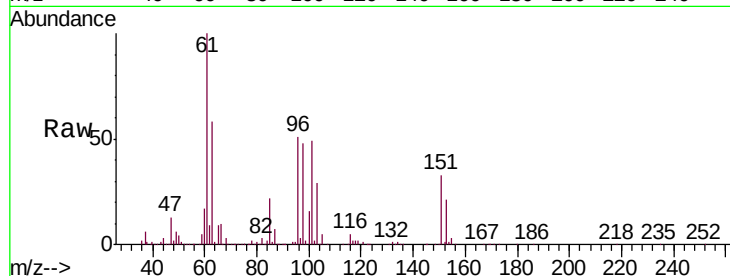
Tgt Ion: 101 Resp: 111571

Ion Ratio Lower Upper

101 100

85 46.3 37.4 56.0

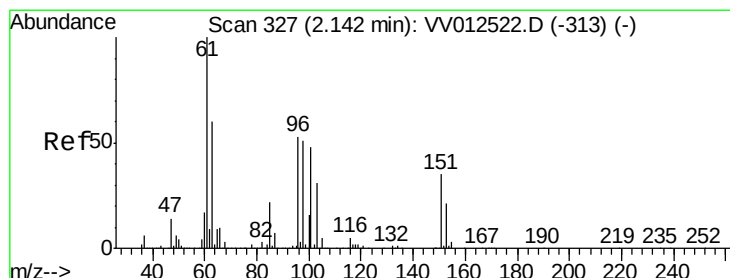
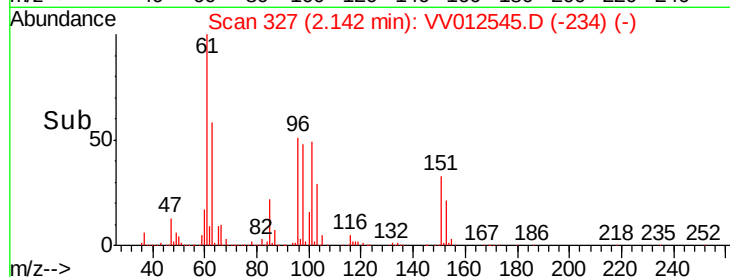
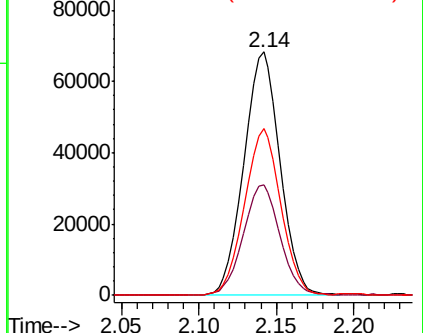
151 68.4 56.7 85.1



Abundance Ion 101.00 (100.70 to 101.70): VV012522.D (-309) (-)

Ion 85.00 (84.70 to 85.70): VV012522.D (-309) (-)

Ion 151.00 (150.70 to 151.70): VV012522.D (-309) (-)



#12

1,1-Dichloroethene

Concen: 5.243 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

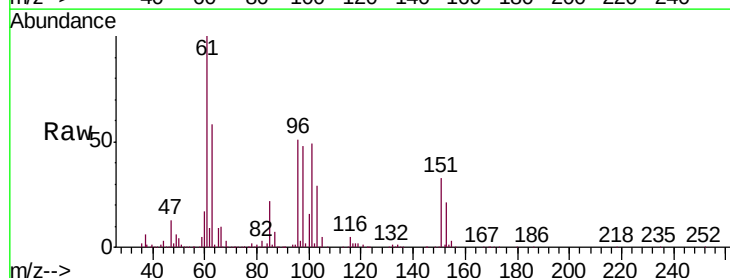
Tgt Ion: 96 Resp: 102080

Ion Ratio Lower Upper

96 100

61 195.9 133.7 248.3

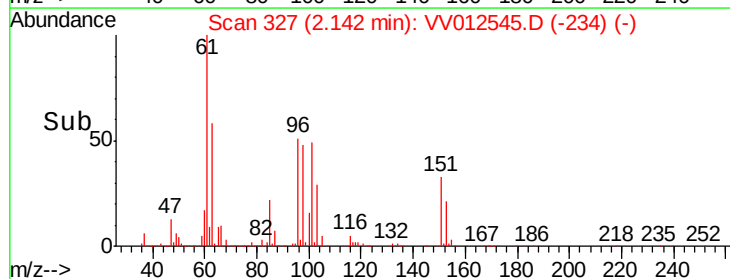
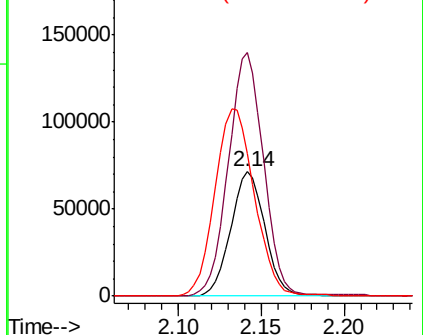
63 114.3 83.2 154.6

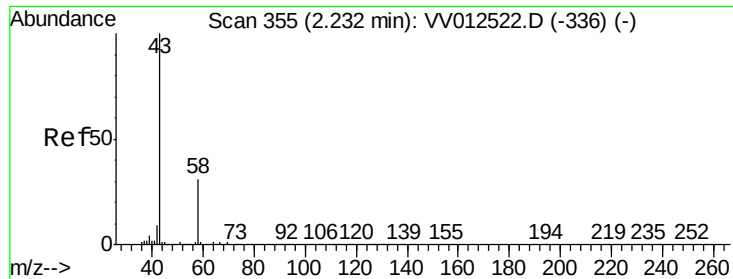


Abundance Ion 96.00 (95.70 to 96.70): VV012522.D (-313) (-)

Ion 61.05 (60.75 to 61.75): VV012522.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV012522.D (-313) (-)





#13

Acetone

Concen: 50.607 ug/L

RT: 2.23 min Scan# 354

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

Instrument :

MSVOA_V

ClientSampleId :

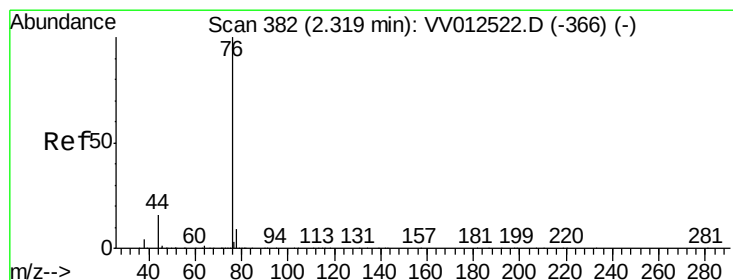
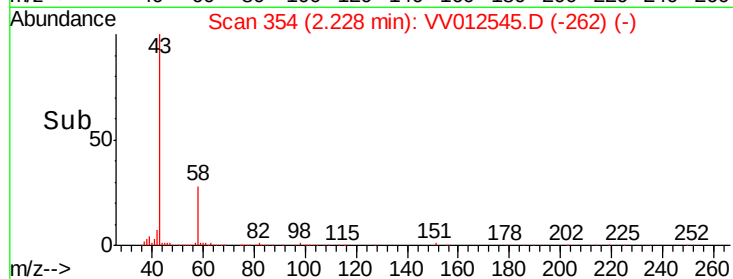
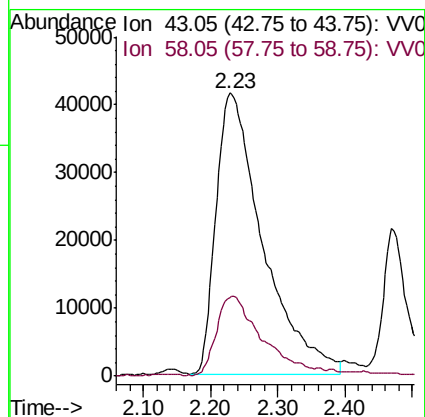
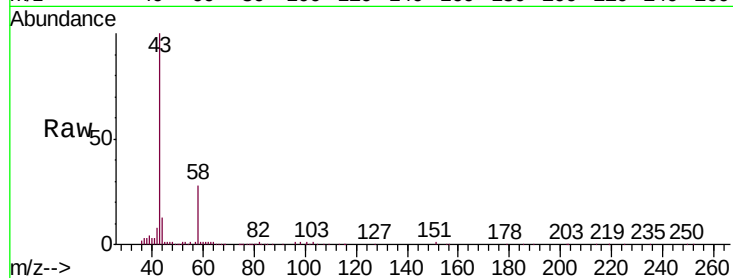
VSTD00539

Tgt Ion: 43 Resp: 200047

Ion Ratio Lower Upper

43 100

58 27.1 0.0 58.2



#14

Carbon disulfide

Concen: 5.082 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV012545.D

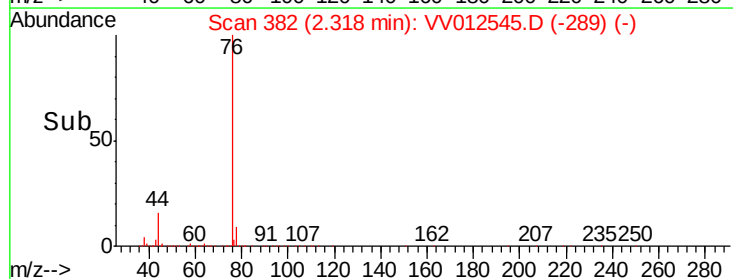
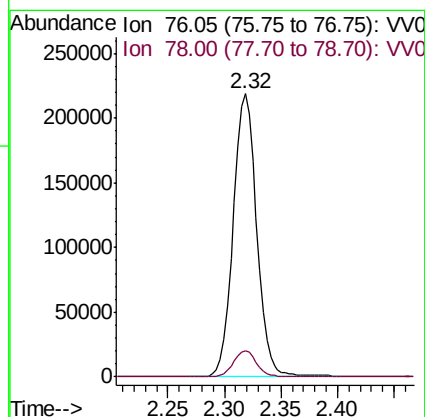
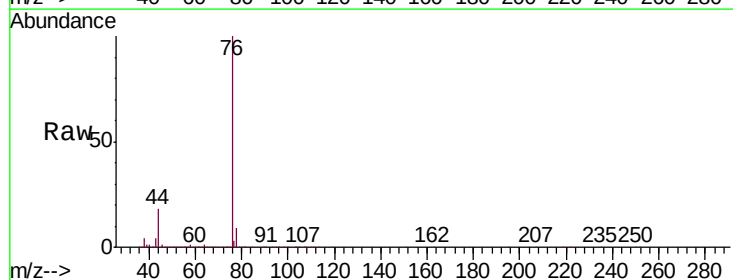
Acq: 03 Sep 2019 09:06

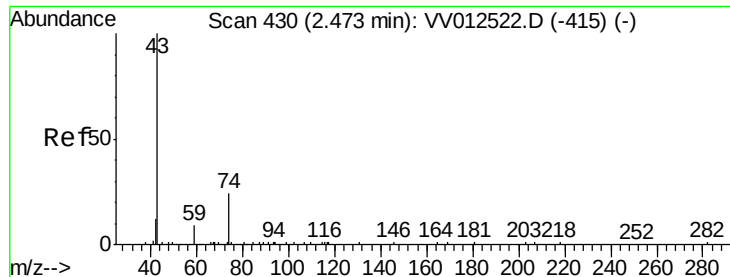
Tgt Ion: 76 Resp: 318150

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0

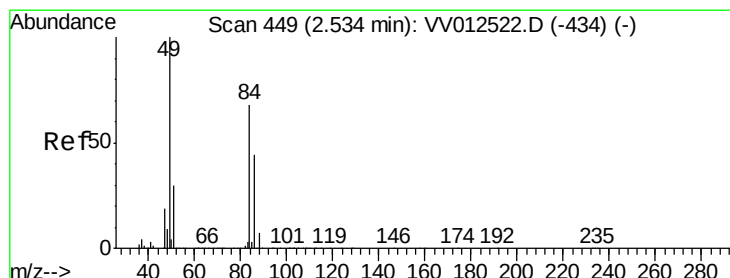
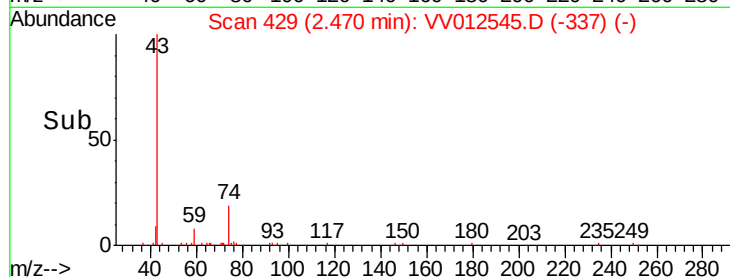
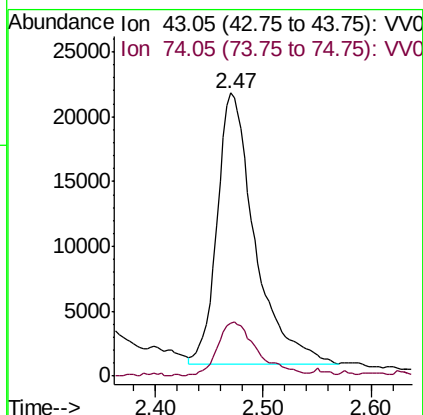
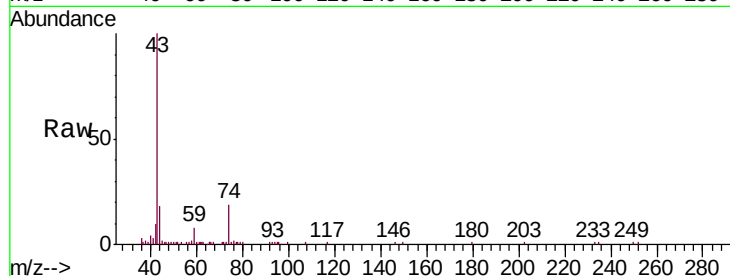




#15
Methyl Acetate
Concen: 5.318 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV012545.D
Acq: 03 Sep 2019 09:06

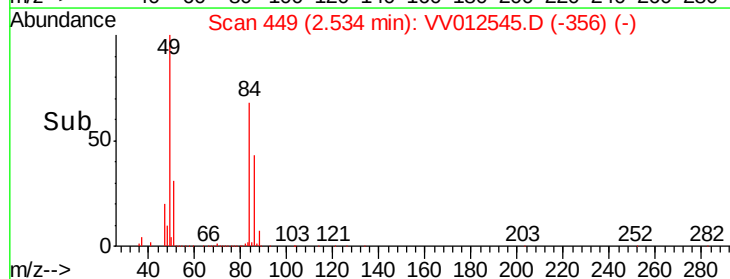
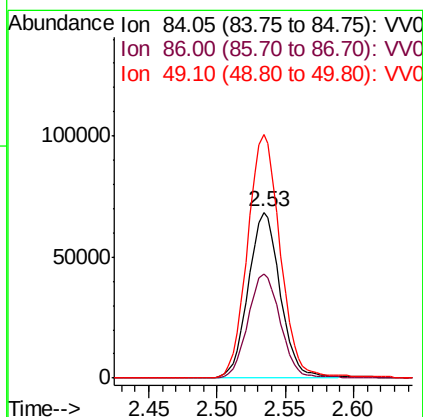
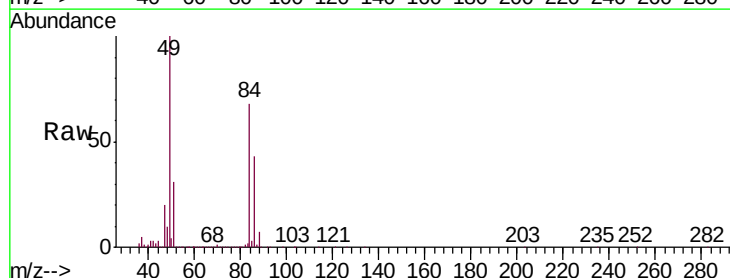
Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

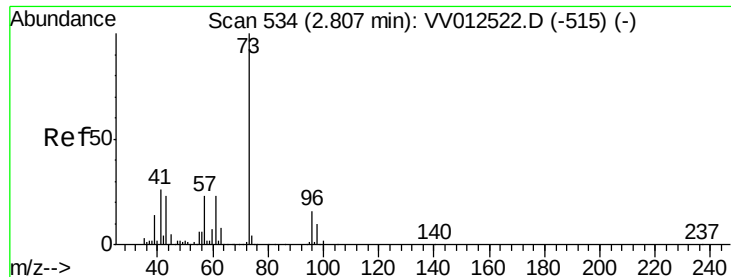
Tgt Ion: 43 Resp: 50949
Ion Ratio Lower Upper
43 100
74 21.4 17.3 25.9



#16
Methylene chloride
Concen: 4.974 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV012545.D
Acq: 03 Sep 2019 09:06

Tgt Ion: 84 Resp: 111444
Ion Ratio Lower Upper
84 100
86 63.0 45.2 84.0
49 146.9 100.4 186.4

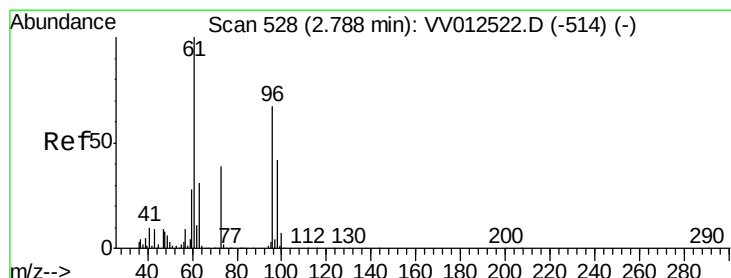
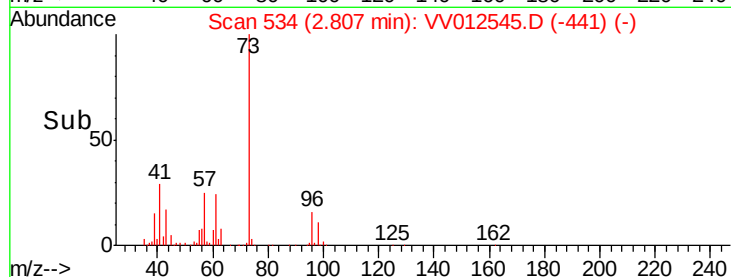
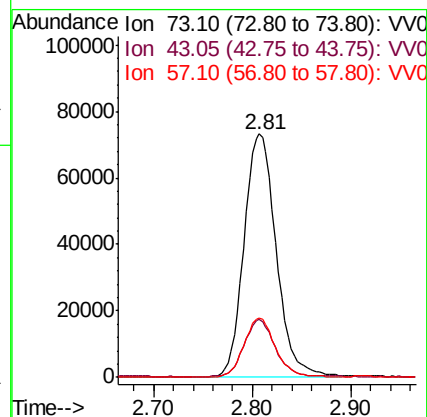
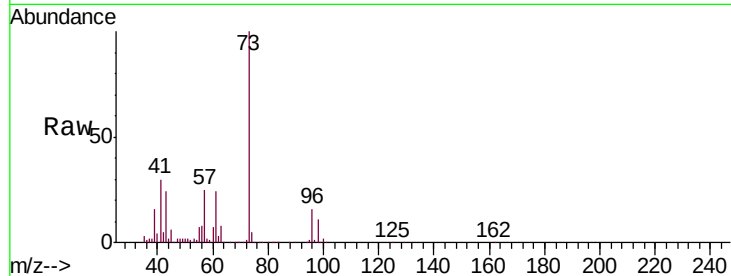




#17
Methyl tert-butyl Ether
Concen: 5.014 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV012545.D
Acq: 03 Sep 2019 09:06

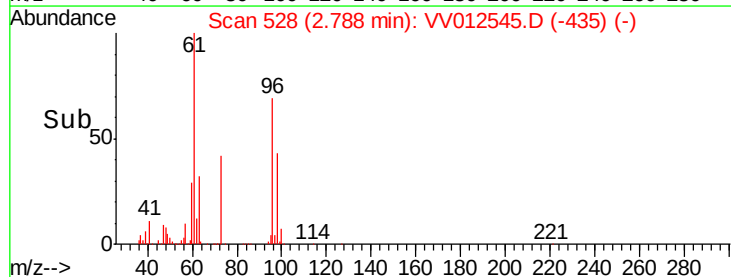
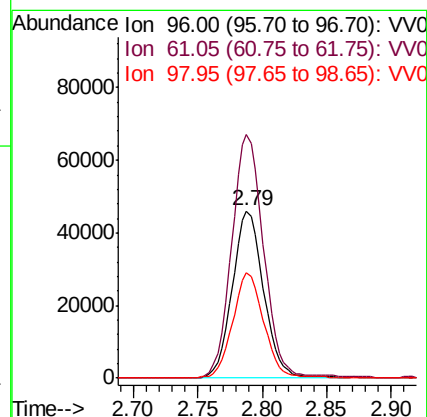
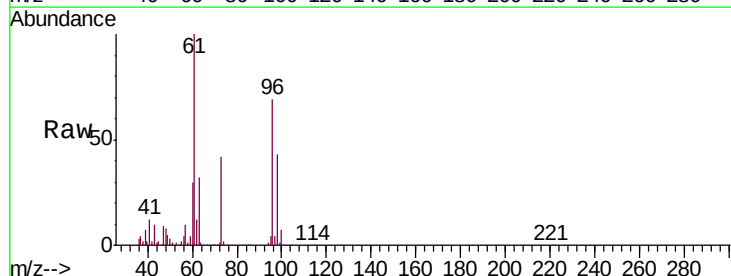
Instrument :
MSVOA_V
ClientSampleId :
VSTD00539

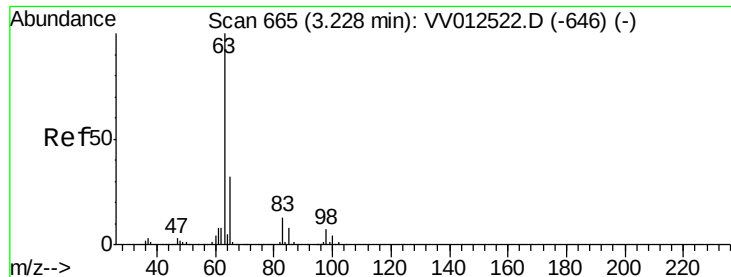
Tgt Ion: 73 Resp: 165820
Ion Ratio Lower Upper
73 100
43 22.2 18.9 28.3
57 23.9 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 5.005 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV012545.D
Acq: 03 Sep 2019 09:06

Tgt Ion: 96 Resp: 77910
Ion Ratio Lower Upper
96 100
61 145.7 107.6 199.8
98 62.8 44.4 82.4





#19

1,1-Dichloroethane

Concen: 5.058 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD00539

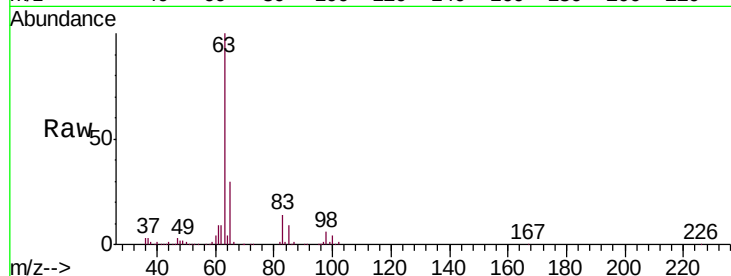
Tgt Ion: 63 Resp: 151559

Ion Ratio Lower Upper

63 100

65 30.1 21.5 39.9

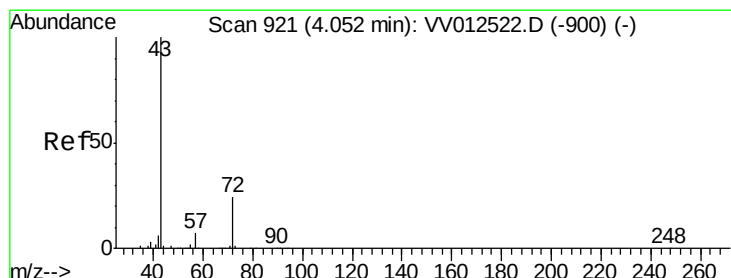
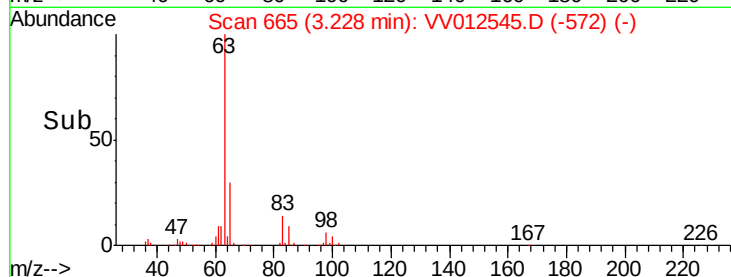
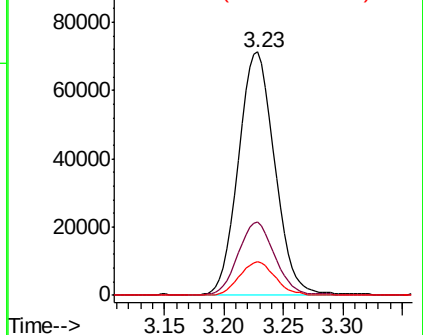
83 14.1 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VV012522.D (-646) (-)

Ion 65.10 (64.80 to 65.80): VV012522.D (-646) (-)

Ion 83.05 (82.75 to 83.75): VV012522.D (-646) (-)



#21

2-Butanone

Concen: 51.887 ug/L

RT: 4.05 min Scan# 920

Delta R.T. -0.00 min

Lab File: VV012545.D

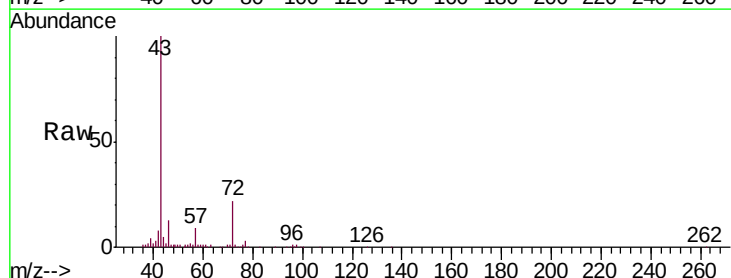
Acq: 03 Sep 2019 09:06

Tgt Ion: 43 Resp: 196247

Ion Ratio Lower Upper

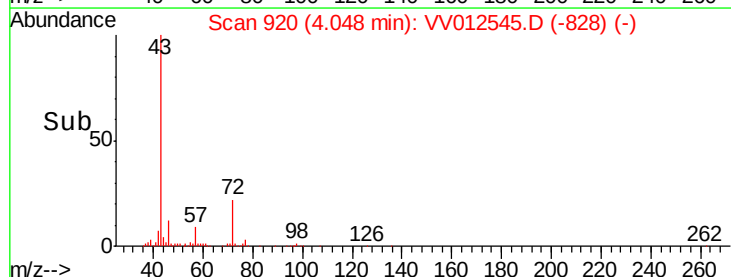
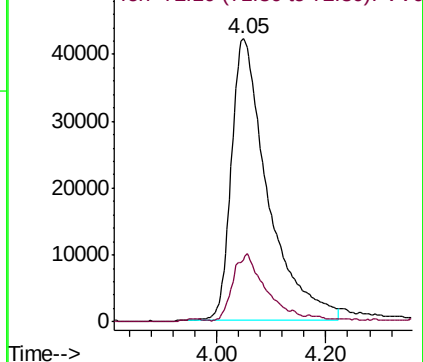
43 100

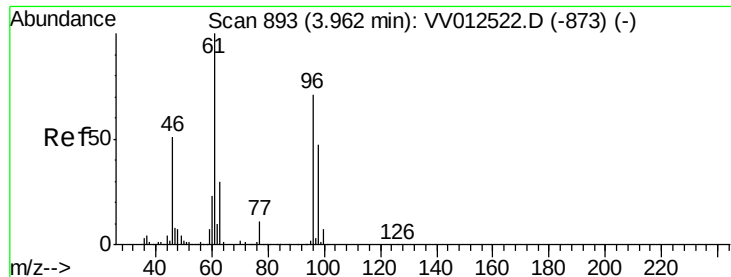
72 21.3 11.4 34.1



Abundance Ion 43.05 (42.75 to 43.75): VV012522.D (-900) (-)

Ion 72.10 (71.80 to 72.80): VV012522.D (-900) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.783 ug/L

RT: 3.96 min Scan# 893

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD00539

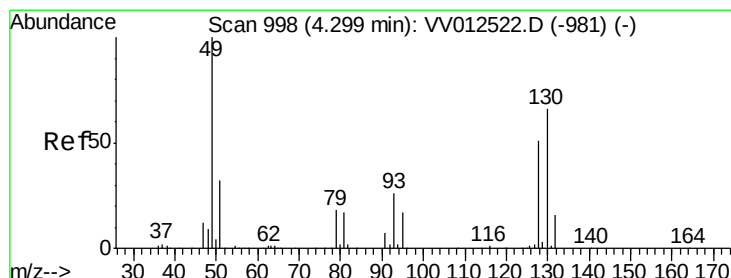
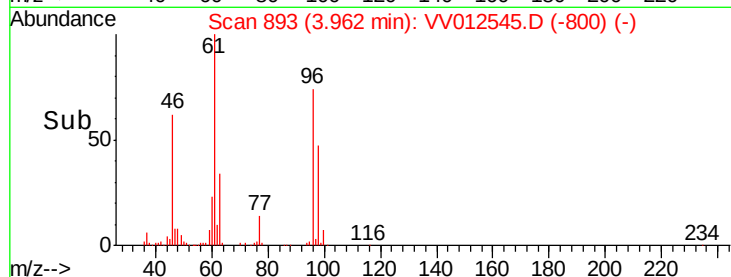
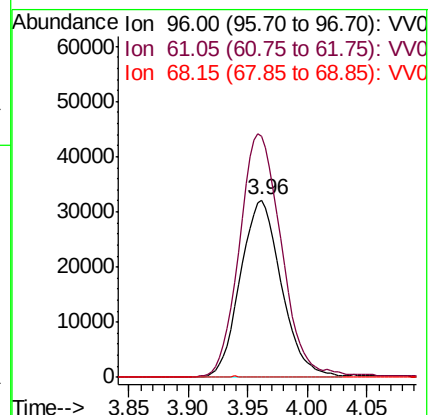
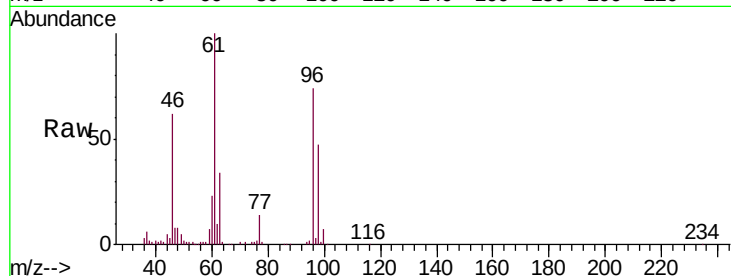
Tgt Ion: 96 Resp: 76947

Ion Ratio Lower Upper

96 100

61 135.8 97.5 181.1

68 0.0 0.0 0.0



#23

Bromochloromethane

Concen: 4.974 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV012545.D

Acq: 03 Sep 2019 09:06

Tgt Ion: 128 Resp: 31958

Ion Ratio Lower Upper

128 100

49 205.9 136.5 253.5

130 132.9 92.1 171.1

51 66.6 52.5 78.7

