LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
Data File : VX002689.D
Acq On : 18 Jun 2018 19:41
Operator : JC/MD
Sample : J3534-01 5X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : EFF-WW

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X061818W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.123	247	252	259	rVB	33823	48215	2.88%	0.590%
2	2.355	284	290	300	rBV	161852	258991	15.48%	3.171%
3	2.453	300	306	314	rBV	283748	475846	28.44%	5.825%
4	2.623	328	334	343	rVB	159939	290558	17.36%	3.557%
5	3.940	544	550	560	rVB	15430	41742	2.49%	0.511%
6	4.361	608	619	634	rBV	57724	158366	9.46%	1.939%
7	5.025	716	728	745	rBV2	96504	327462	19.57%	4.009%
8	5.220	749	760	769	rVB3	8148	26231	1.57%	0.321%
9	6.074	890	900	913	rBV	103022	269262	16.09%	3.296%
10	6.489	958	968	980	rBV2	12823	34617	2.07%	0.424%
11	6.739	998	1009	1021	rBV	449340	1067804	63.81%	13.072%
12	6.867	1022	1030	1044	rVB	243286	579026	34.60%	7.089%
13	8.720	1327	1334	1337	rBV	463288	722746	43.19%	8.848%
14	8.756	1337	1340	1352	rVB	355399	533506	31.88%	6.531%
15	10.116	1557	1563	1573	rBV	478588	638559	38.16%	7.817%
16	10.829	1673	1680	1686	rBV	26198	37899	2.26%	0.464%
17	11.140	1725	1731	1739	rBV	419069	518052	30.96%	6.342%
18	11.482	1782	1787	1801	rVB	51937	81346	4.86%	0.996%
19	12.274	1912	1917	1933	rBV	1275122	1673370	100.00%	20.486%
20	13.323	2086	2089	2094	rVB	47457	51081	3.05%	0.625%
21	14.097	2210	2216	2221	rVB	146252	163767	9.79%	2.005%
22	14.816	2329	2334	2339	rBV	156410	169980	10.16%	2.081%

Sum of corrected areas: 8168426

LSC Report - Integrated Chromatogram

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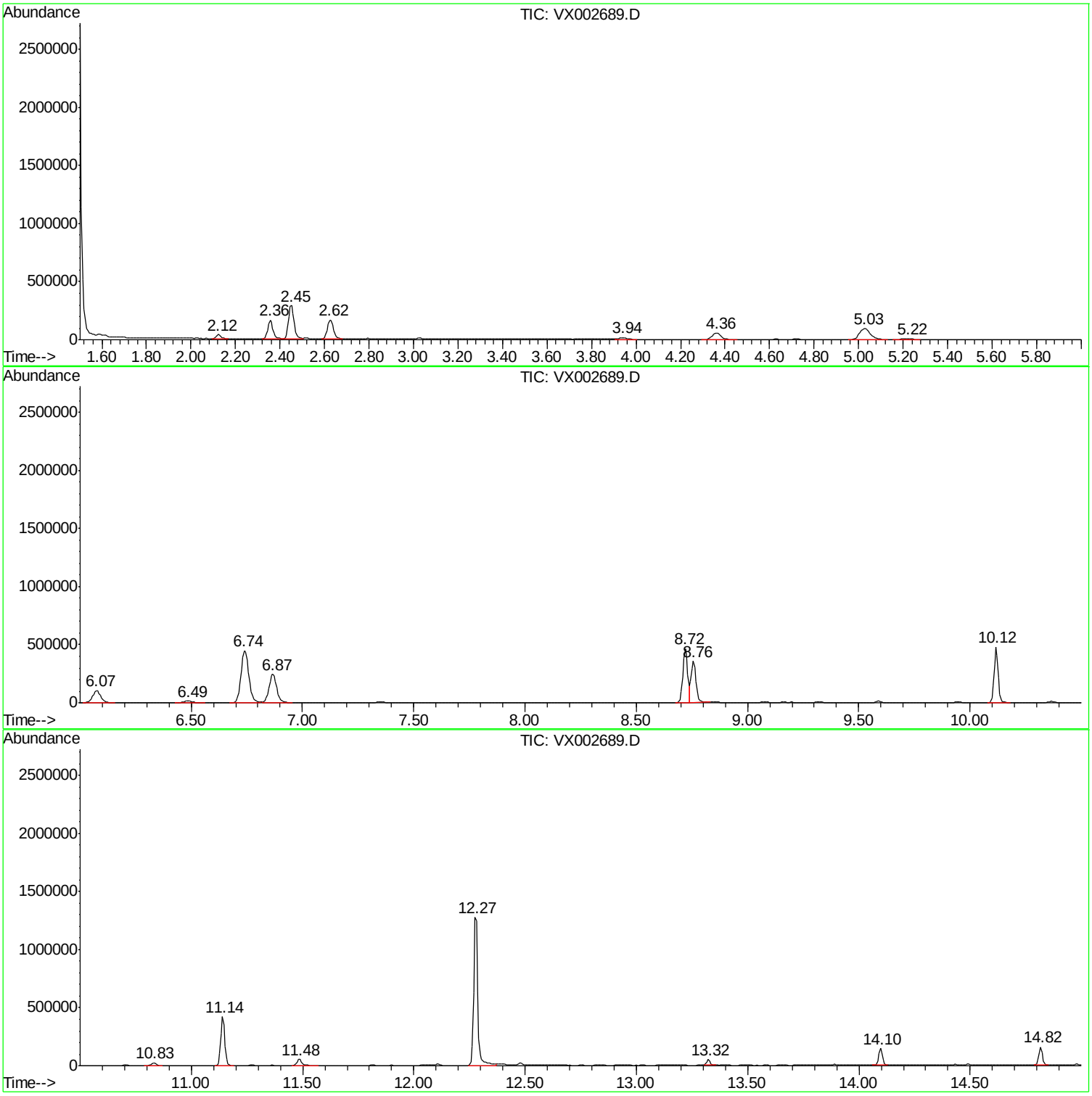
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X061818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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ClientSampleId : EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X061818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Ethanol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.12	4.42 ug/l	48215	Bromochloromethane	5.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol	46	C2H6O	000064-17-5	64
2	Ethanol	46	C2H6O	000064-17-5	64
3	Ethanol	46	C2H6O	000064-17-5	40
4	Dimethyl ether	46	C2H6O	000115-10-6	9
5	Dimethyl ether	46	C2H6O	000115-10-6	9

****

Peak Number 2 Propanal Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.36	23.73 ug/l	258991	Bromochloromethane	5.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanal	58	C3H6O	000123-38-6	78
2	Propanal	58	C3H6O	000123-38-6	40
3	Propanal	58	C3H6O	000123-38-6	40
4	Borane, compd. with dimethylamin...	59	C2H10BN	000074-94-2	9
5	Trimethylene oxide	58	C3H6O	000503-30-0	9

****

Peak Number 3 Isopropyl Alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.62	26.62 ug/l	290558	Bromochloromethane	5.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	64
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	40
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	40
4	Hydrazine, 1,2-dimethyl-	60	C2H8N2	000540-73-8	9
5	Hydrazine, 1,2-dimethyl-	60	C2H8N2	000540-73-8	9

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Peak Number 4 Ethane, 1,1-dimethoxy- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.

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Acq On : 18 Jun 2018 19:41
Operator : JC/MD
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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X061818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.94	3.82 ug/l	41742	Bromochloromethane	5.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1-dimethoxy-	90	C4H10O2	000534-15-6	64
2	Ethane, 1,1-dimethoxy-	90	C4H10O2	000534-15-6	64
3	Ethane, 1,1-dimethoxy-	90	C4H10O2	000534-15-6	43
4	Ethane, 1,1-dimethoxy-	90	C4H10O2	000534-15-6	43
5	Hydrazine, 1-methyl-1-propyl-	88	C4H12N2	004986-49-6	9

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Peak Number 5 Butanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.36	14.51 ug/l	158366	Bromochloromethane	5.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	91
2	Butanal	72	C4H8O	000123-72-8	87
3	Butanal	72	C4H8O	000123-72-8	58
4	Butanal	72	C4H8O	000123-72-8	58
5	Ethene, ethoxy-	72	C4H8O	000109-92-2	47

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Peak Number 6 2-Butenal Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	55.32 ug/l	1067800	1,4-Difluorobenzene	6.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butenal	70	C4H6O	004170-30-3	94
2	2-Butenal, (E)-	70	C4H6O	000123-73-9	91
3	2,3-Dihydrofuran	70	C4H6O	001191-99-7	90
4	2-Butenal, (Z)-	70	C4H6O	015798-64-8	90
5	Furan, 2,5-dihydro-	70	C4H6O	001708-29-8	90

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Peak Number 7 Hexanal, 2-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.48	3.82 ug/l	81346	Chlorobenzene-d5	10.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual

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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X061818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

1	Hexanal, 2-ethyl-	128	C8H16O	000123-05-7	90
2	Hexanal, 2-ethyl-	128	C8H16O	000123-05-7	87
3	Hexanal, 2-ethyl-	128	C8H16O	000123-05-7	87
4	Hexanal, 2-ethyl-	128	C8H16O	000123-05-7	86
5	Pentane, 1-(1-butenyloxy)-, (Z)-	142	C9H18O	056052-76-7	64

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Peak Number 8 1-Hexanol, 2-ethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	78.62 ug/l	1673370	Chlorobenzene-d5	10.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
2	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	72
3	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	64
4	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	64
5	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	56

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Peak Number 9 Tridecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.10	7.69 ug/l	163767	Chlorobenzene-d5	10.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	91
2	Tridecane	184	C13H28	000629-50-5	87
3	Tetradecane	198	C14H30	000629-59-4	86
4	Nonadecane	268	C19H40	000629-92-5	83
5	Hexadecane	226	C16H34	000544-76-3	80

****

Peak Number 10 Tetradecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.82	7.99 ug/l	169980	Chlorobenzene-d5	10.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	98
2	Tetradecane	198	C14H30	000629-59-4	97
3	Tetradecane	198	C14H30	000629-59-4	97

Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061818\
Data File : VX002689.D
Acq On : 18 Jun 2018 19:41
Operator : JC/MD
Sample : J3534-01 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X061818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

4	Tetradecane	198	C14H30	000629-59-4	95
5	Eicosane	282	C20H42	000112-95-8	90

Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061818\
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Sample : J3534-01 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : EFF-WW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X061818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethanol	2.12	4.4	ug/l	48215	1	5.03	327462	30.0
Propanal	2.36	23.7	ug/l	258991	1	5.03	327462	30.0
Isopropyl Alcohol	2.62	26.6	ug/l	290558	1	5.03	327462	30.0
Ethane, 1,1-dimet...	3.94	3.8	ug/l	41742	1	5.03	327462	30.0
Butanal	4.36	14.5	ug/l	158366	1	5.03	327462	30.0
2-Butenal	6.74	55.3	ug/l	1067800	2	6.87	579026	30.0
Hexanal, 2-ethyl-	11.48	3.8	ug/l	81346	3	10.12	638559	30.0
1-Hexanol, 2-ethyl-	12.27	78.6	ug/l	1673370	3	10.12	638559	30.0
Tridecane	14.10	7.7	ug/l	163767	3	10.12	638559	30.0
Tetradecane	14.82	8.0	ug/l	169980	3	10.12	638559	30.0